



Infrastructure Water Environment Buildings

US EPA RECORDS CENTER REGION 5



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Mr. Matthew Panszczyk  
Principal Project Manager  
Commonwealth Edison Company  
Three Lincoln Center, 6<sup>th</sup> Floor  
Oakbrook Terrace, IL 60181

Subject:  
Environmental Investigation Report  
ComEd Crawford GS-13 Substation  
Chicago, Illinois

Dear Mr. Panszczyk:

This report presents the results of an environmental investigation conducted by ARCADIS US, Inc. (ARCADIS) for Commonwealth Edison Company's (ComEd's) construction activities related to new spread footings related to proposed capacitor banks, static poles, circuit breakers, other miscellaneous support structures and storm water management system at Crawford GS-13, located at 3501 S. Pulaski Road, Chicago, Illinois (Site). The Site Location Map and Soil Boring Location Map are shown on **Figures 1** and **2**, respectively.

This project was conducted according to the scope of work included in ARCADIS' proposal memo dated April 27, 2012 and approved by ComEd in project release number 00119 under Contract Number 01091076 between ComEd and ARCADIS.

The Site is currently being used as an active electrical substation within a power generating station. The Site is relatively level and the layout and soil boring locations are shown on **Figure 2**.

The objectives of this investigation were (1) to determine if soil contamination is present; (2) evaluate the soil analytical data relative to current Illinois EPA regulations; and (3) document the results of our investigation.

#### Subsurface Soil Assessment

The subsurface conditions located at the Site were investigated by drilling 14 soil borings to depths ranging from 25 to 50 feet below ground surface (bgs) between May 14, 2012 and May 17, 2012. A High Risk Evolution (HRE) work plan was developed and approved by ComEd. Before the soil borings were drilled, ARCADIS contacted City of Chicago (DIGGER), the utility one-call system, and subcontracted

Imagine the result

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Intren to clear underground utilities at the proposed soil boring locations. K&S Engineers (K&S) of Highland, Indiana drilled the soil borings during the environmental investigation under the supervision of an experienced ARCADIS field engineer. At the completion of each boring, the borings were backfilled with the soil cuttings and capped with bentonite chips. The soil boring locations are presented on **Figure 2**.

During the soil drilling activities, ARCADIS' field engineer examined and classified the soils encountered, noted the groundwater level, if applicable, and obtained soil samples for chemical and head space analysis. All soil samples were initially screened for volatile organic compounds (VOCs) by performing headspace analysis before sending to an analytical laboratory. To conduct the headspace analysis, soil samples were placed in quart size re-sealable plastic bags. A minimum of 20 minutes after sampling, a photoionization detector (PID) probe was inserted into the bag, and the highest reading was recorded on the boring logs. A headspace analysis reading is a total of all VOCs with ionization potentials less than the PID lamp intensity (10.6 eV), and provides an indication that contaminants may be present. This measurement does not provide a direct indication of the quantity of contaminants that may be present in a non-gaseous phase. ARCADIS calibrated the PID according to the manufacturer's instructions.

Based on field observations, nine (9) samples from the upper ten feet were selected for analytical analysis. Soil samples were analyzed for Volatile Organic Compounds (VOCs) by EPA Method SW5035/SW8260B, Polynuclear Aromatic Compounds (PNAs) by EPA Method SW8270C, Polychlorinated Biphenyls (PCBs), total Resource Conservation and Recovery Act (RCRA) Metals by EPA Methods SW7471A/SW6020, Toxicity Characteristic Leaching Procedure (TCLP) metals by EPA Methods SW1311/6020 and SW1311/7470A, water soluble sulfates analysis by EPA Method M4500SO<sub>4</sub> E and pH by EPA Method SW9045C. In addition, one sample was analyzed for semi-mobile (elemental) mercury by EPA Method SW7470A/7471A.

Soil samples were collected using nitrile gloves and were retained in a cooler on ice at 4°C until delivered to the analytical laboratory, STAT Analysis, Inc (STAT) of Chicago, Illinois, with a 4-day turn around schedule, under strict chain-of-custody procedures.

The analytical soil sample results are summarized in **Table 1**. Complete laboratory analytical results are attached to this letter.

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### Site Geology and Hydrogeology

The proposed new structures are located to the east of ComEd's Crawford GS-13 substation property located within the Midwest Generation Crawford Facility area located at 3501 S. Pulaski Road, Chicago, Illinois. The project site surfaces are relatively level and covered with gravel and some areas of vegetation.

In borings **SB-1** through **SB-8**, and **SB-11** through **SB-14**, gravel fill/top soil was encountered to approximately 3 inches to 3.5 feet bgs, followed by typically medium stiff to very stiff silty clay layer often containing fill material to approximately 13.5 to 14.5 feet bgs. Medium stiff to very stiff clayey silt was encountered below this from approximately 13.5 to 23.5 feet bgs. Stiff to very stiff silty clay was encountered below this to the end of exploration at 25 to 30 feet bgs with some locations containing sand or clayey silt lenses.

In boring **SB-9**, gravel fill was encountered to approximately 3 inches bgs, followed by medium stiff to very stiff clay containing fill and organic materials at various depths to approximately 13.5 feet bgs. Medium stiff to very stiff clayey silt was encountered from approximately 13.5 to 23.5 feet bgs. Stiff to very stiff silty clay was encountered from approximately 23.5 to 43.5 feet bgs with a fine to medium-grained, poorly-graded sand layer at 35 feet bgs. Another very stiff clayey silt layer was encountered at approximately 43.5 to 44.5 feet bgs. Crushed stone materials were encountered from 44.5 to 48.5 feet bgs. Very stiff silty clay was encountered from 48.5 feet bgs to the end of exploration at 50 feet bgs.

In boring **SB-10**, gravel fill was encountered to approximately 3 inches bgs, followed by medium stiff to very stiff clay containing fill, sand and organic materials at various depths to approximately 13.5 feet bgs. Stiff to very stiff clayey silt was encountered from approximately 13.5 to 19.5 feet bgs. Very stiff silty clay was encountered from approximately 19.5 to 48.5 feet bgs with a clayey silt layer at 24 feet bgs and a poorly-graded sand layer at 34.5 feet bgs. Very stiff clayey silt was encountered from 48.5 feet bgs to the end of exploration at 50 feet bgs.

Groundwater was initially encountered during drilling at depths ranging from 8.5 feet bgs to 28.5 feet bgs in 11 of the 14 borings. Stabilized groundwater was measured at depths ranging from 11 feet bgs to 47 feet bgs in 8 of the 14 borings with the remaining borings being dry or caved in after completion of drilling. In borings **SB-12** and **SB-13** stabilized water levels were measured significantly above initially encountered water levels, indicating the presence of artesian water pressure at these locations.

The site is in an area designated "E" by the Illinois State Geological Survey (Berg et al., 1984). The "E" region consists of uniform, relatively impermeable silty or clayey material to a depth of at least 50 feet thick over relatively impermeable bedrock and has limited groundwater contamination potential (Berg et al, 1984).

ARCADIS' field engineer classified the soils according to the Unified Soil Classification System (USCS). All field observations and measurements are presented in the boring logs. The boring logs are attached to this letter.

### **Soil Sample Analytical Results**

ARCADIS collected nine (9) discrete soil samples from the upper ten feet, based on visual observations and PID readings. The soil samples were analyzed for VOCs, PCBs, PNAs, total and TCLP RCRA Metals, soluble sulfate and pH. A summary of the soil analytical results is presented in **Table 1** and the complete laboratory report is attached to this letter.

Soil analytical results (see Table 1) were compared to the Tier 1 Soil Remediation Objectives (Tier 1 SROs) for residential, industrial/commercial properties and construction worker land use scenarios as listed in 35 Illinois Administrative Code Part 742, "Tiered Approach to Corrective Action Objectives" (TACO) dated February 23, 2007. Tier 1 analysis assumes three potential exposure routes (ingestion, inhalation and migration to groundwater) are possible. For a specific chemical, ARCADIS used the lowest SRO from the three routes for comparison. Soil that exceeds the Tier 1 residential SROs is considered contaminated and should be disposed in a secure, licensed landfill in accordance with applicable regulations.

Based on the analytical results of the soil samples, VOCs were not detected in the samples analyzed at levels exceeding Tier 1 cleanup objectives. There were three (3) PCB compounds (Aroclor-1242, 1254 and 1260) detected. The results combined exceeded the SRO of one (1) mg/kg in sample SB-12 (3.5-5') and were less than one (1) mg/kg in sample SB-14 (3.5-5'). The total RCRA metal mercury was detected at a level exceeding the Tier I construction worker inhalation objective in sample SB-14 (3.5-5'). Additional analysis results to determine the semi-mobile fraction of mercury (elemental mercury) as allowed by the Illinois EPA also exceeded the construction worker inhalation objective. The total RCRA metals arsenic and lead were detected in samples SB-10 (1-2.5') and SB-12 (3.5-5') exceeding the residential and commercial/industrial remediation objective, but below the construction worker objective. The PNAs benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene were detected at levels exceeding either or both

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residential and industrial/commercial objectives but below construction worker objectives in sample SB-14 (3.5-5').

TCLP is used to determine the leachable concentrations of substances of concern from solid waste and the results are compared to hazardous waste toxicity criteria defined in the RCRA, 40 CFR, Chapter 1, Section 261.24. A solid waste is considered hazardous under the toxicity characteristic if it contains any of the metals at concentrations higher than the established regulatory levels (i.e., RCRA hazardous waste toxicity criteria). Based on the TCLP results, none of the sample results exceed the RCRA regulatory levels. Therefore, the soil is not hazardous.

TCLP lead was detected in five (5) of the nine (9) samples collected and TCLP cadmium in two (2) of the nine (9) samples collected above the Class I soil migration to groundwater ingestion exposure route SRO. The Tier I Class I soil migration to groundwater objective was exceeded for samples SB-1 (3.5-5'), SB-10 (1-1.5'), SB-12 (3.5-5') and both Class I and II groundwater objectives were exceeded in sample SB-14 (3.5-5'). However, the total lead and cadmium results do not exceed pH specific soil remediation objectives for the Class II soil component of the groundwater ingestion exposure route. Groundwater within the City of Chicago is considered Class II. Therefore, the lead and cadmium results do not exceed the Tier 1 remediation objectives for these samples.

### **Conclusions**

ARCADIS performed a site investigation, including sampling and analysis, to determine if subsurface soil contamination is present at the site. Based upon the analytical results of the soil samples and field observations, soil contamination does exist at levels exceeding Tier 1 SROs at several locations. The RCRA metals (except mercury) and PNA results are below the allowable construction worker levels. However, PCBs exceeded construction worker SROs in sample SB-12 (3.5-5') and mercury exceeded construction worker SROs in sample SB-14 (3.5-5'). Therefore, ARCADIS recommends special construction worker precautions during construction activities. These precautions include, but are not limited to the use of a site specific safety and health program, nitrile gloves, Tyvek coveralls and boot covers near location SB-12. Near boring SB-14, ARCADIS recommends mercury air monitoring during construction activities that disturb soil.

Based upon the test results, it is ARCADIS' opinion that any soil that meets the Tier 1 objectives can be re-used as backfill on site during the construction. Any soil that exceeded the Tier 1 objectives or any soils that cannot be reused on site should be disposed of to a landfill approved by ComEd's Environmental Services Department. .

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Based upon the sample results, the soil is characterized as a non-hazardous waste for disposal.

ARCADIS recommends water pumped from dewatering operations be disposed of at a treatment facility approved by ComEd. As an alternative, if water from the dewatering operation meets discharge limits based on additional testing, the water can be directly discharged into Metropolitan Water Reclamation District of Greater Chicago's (MWRDGC's) sewer system. A discharge authorization will be required from MWRDGC and the City of Chicago.

#### **Limitations**

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ARCADIS and ComEd. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, express or implied, is intended or given.

To the extent that ARCADIS relied upon any information prepared by other parties not under contract to ARCADIS, ARCADIS makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of ComEd. Only ComEd has the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when ARCADIS' investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. ARCADIS' ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in environmental investigation conclusions cannot reasonably be achieved.

ARCADIS, therefore, does not provide any guarantees, certifications, or warranties regarding any conclusions regarding environmental contamination of any such

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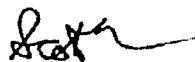
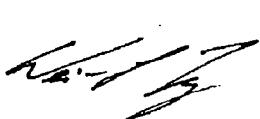
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ComEd  
Crawford GS-13  
Substation  
June 2012

property. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

If you have any questions or need additional information, please contact us at (847) 649-2022 or (847) 649-2048.

Sincerely,



**Wei-Lin Feng, P.E., P.G.**  
Client Program Manager  
ILLINOIS P.E. # 062-048678

**Scott Nellis E.I.T**  
Staff Engineer

Copies:  
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Attachments:

Table

Figures

- 1     Soil Boring Logs
- 2     Laboratory Analytical Results

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**ARCADIS**

**Table**

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Table 1.  
Summary of Soil Analytical Results  
ComEd Crawford GS-13  
Chicago, Illinois

| Analyte                         | Background Concentration Values of PNAs for Metropolitan Area | Tier 1 Residential Remediation Objective                           | Tier 1 Commercial / Industrial Remediation Objective                | Tier 1 Construction Worker Objective | SB-1 (3.5-5') | SB-5 (3.5-5') | SB-8 (8.5-10') | SB-9 (6-7.5') | SB-10 (1-2.5') | SB-11 (1-2.5') | SB-12 (3.5-5') | SB-13 (3.5-5') | SB-14 (3.5-5') |  |
|---------------------------------|---|--|---|--------------------------------------|---------------|---------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|--|
| <b>PNAs (mg/Kg)</b>             |   |  |   |                                      |               |               |                |               |                |                |                |                |                |  |
| Acenaphthirene                  | 0.13  | 570  | 570   | 120000                               | < 0.041       | < 0.039       | < 0.04         | < 0.039       | < 0.041        | < 0.039        | 0.14           | < 0.04         | 0.49           |  |
| Acenaphthylene                  | 0.07  | 85   | 85  | 61000                                | < 0.041       | < 0.039       | < 0.04         | < 0.039       | < 0.041        | < 0.039        | 0.31           | < 0.04         | 0.95           |  |
| Anthracene                      | 0.4   | 12000  | 12000   | 610000                               | < 0.041       | < 0.039       | < 0.04         | < 0.039       | < 0.041        | < 0.039        | 0.49           | < 0.04         | 1.3            |  |
| Benz(a)anthracene               | 1.8   | 0.9  | 2   | 170                                  | 0.083         | < 0.039       | < 0.04         | < 0.039       | 0.086          | < 0.039        | 1.2            | < 0.04         | 1.8            |  |
| Benz(a)pyrene                   | 2.1   | 0.09   | 0.8   | 17                                   | 0.081         | < 0.039       | < 0.04         | < 0.039       | 0.091          | < 0.039        | 1.1            | < 0.04         | 2.7            |  |
| Benz(b)fluoranthene             | 2.1   | 0.9  | 5   | 170                                  | 0.085         | < 0.039       | < 0.04         | < 0.039       | 0.097          | < 0.039        | 1              | < 0.04         | 2.3            |  |
| Benz(g,h,i)perylene             | 1.7   | 2300   | 27000   | 61000                                | 0.055         | < 0.039       | < 0.04         | < 0.039       | 0.066          | < 0.039        | 0.98           | < 0.04         | 3              |  |
| Benz(k)fluoranthene             | 1.7   | 9  | 49  | 1700                                 | < 0.041       | < 0.039       | < 0.04         | < 0.039       | < 0.041        | < 0.039        | 0.9            | < 0.04         | 1.4            |  |
| Chrysene                        | 2.7   | 88   | 160   | 17000                                | 0.092         | 0.043         | < 0.04         | < 0.039       | 0.099          | 0.048          | 1.2            | < 0.04         | 2.1            |  |
| Dibenz(a,h)anthracene           | 0.42  | 0.09   | 0.8   | 17                                   | < 0.041       | < 0.039       | < 0.04         | < 0.039       | < 0.041        | < 0.039        | 0.35           | < 0.04         | 0.98           |  |
| Fluoranthene                    | 4.1   | 3100   | 4300  | 82000                                | 0.16          | 0.069         | < 0.04         | < 0.039       | 0.17           | 0.07           | 2.5            | < 0.04         | 4.1            |  |
| Fluorene                        | 0.18  | 560  | 560   | 82000                                | < 0.041       | < 0.039       | < 0.04         | < 0.039       | < 0.041        | < 0.039        | 0.099          | < 0.04         | 0.43           |  |
| Indeno(1,2,3-cd)pyrene          | 1.6   | 0.9  | 8   | 170                                  | 0.048         | < 0.039       | < 0.04         | < 0.039       | 0.052          | < 0.039        | 0.74           | < 0.04         | 2.2            |  |
| Naphthalene                     | 0.2   | 12   | 12  | 1.8                                  | < 0.041       | < 0.039       | < 0.04         | < 0.039       | < 0.041        | < 0.039        | 0.13           | < 0.04         | 0.27           |  |
| Phenanthrene                    | 2.5   | 200  | 200   | 61000                                | 0.079         | 0.068         | < 0.04         | < 0.039       | 0.096          | 0.088          | 2              | < 0.04         | 3.1            |  |
| Pyrene                          | 3   | 2300   | 4200  | 61000                                | 0.15          | 0.056         | < 0.04         | < 0.039       | 0.14           | 0.064          | 2.1            | < 0.04         | 3.2            |  |
| <b>PCBs (mg/Kg)</b>             |   |  |   |                                      |               |               |                |               |                |                |                |                |                |  |
| Aroclor 1016                    |   |  |   |                                      | < 0.1         | < 0.093       | < 0.096        | < 0.094       | < 0.098        | < 0.094        | < 0.095        | < 0.095        | < 0.093        |  |
| Aroclor 1221                    |   |  |   |                                      | < 0.1         | < 0.093       | < 0.096        | < 0.094       | < 0.098        | < 0.094        | < 0.095        | < 0.095        | < 0.093        |  |
| Aroclor 1232                    |   |  |   |                                      | < 0.1         | < 0.093       | < 0.096        | < 0.094       | < 0.098        | < 0.094        | < 0.095        | < 0.095        | < 0.093        |  |
| Aroclor 1242                    |   |  |   |                                      | < 0.1         | < 0.093       | < 0.096        | < 0.094       | < 0.098        | < 0.094        | 0.82           | < 0.095        | 0.24           |  |
| Aroclor 1248                    |   |  |   |                                      | < 0.1         | < 0.093       | < 0.096        | < 0.094       | < 0.098        | < 0.094        | < 0.095        | < 0.095        | < 0.093        |  |
| Aroclor 1254                    |   |  |   |                                      | < 0.1         | < 0.093       | < 0.096        | < 0.094       | < 0.098        | < 0.094        | 0.68           | < 0.095        | 0.23           |  |
| Aroclor 1260                    |   | Sum <1   | Sum <1  | Sum <1                               | < 0.1         | < 0.093       | < 0.096        | < 0.094       | < 0.098        | 0.22           | 0.11           | < 0.095        | 0.12           |  |
| Analyte                         | Background for Metropolitan Area                              | Tier 1 Residential Remediation Objective                           | Commercial / Industrial Remediation Objective                       | Construction Worker Objective        |               |               |                |               |                |                |                |                |                |  |
| <b>RCRA Metals (mg/Kg)</b>      |   |  |   |                                      |               |               |                |               |                |                |                |                |                |  |
| Arsenic                         | 13  | 13**   | 13**  | 61                                   | 11            | 13            | 9.1            | 6.6           | 14             | 12             | 28             | 2.9            | 13             |  |
| Barium                          | 110   | 5500   | 140000  | 14000                                | 88            | 32            | 24             | 60            | 250            | 63             | 340            | 110            | 140            |  |
| Cadmium                         | 0.6   | 78   | 2000  | 200                                  | < 0.64        | < 0.59        | < 0.65         | < 0.59        | 1.3            | < 0.57         | 5.1            | < 0.6          | 7.1            |  |
| Chromium                        | 16.2  | 230  | 420   | 690                                  | 22            | 14            | 12             | 18            | 23             | 18             | 40             | 24             | 90             |  |
| Lead                            | 36  | 400  | 800   | 700                                  | 110           | 31            | 14             | 25            | 510            | 25             | 520            | 29             | 240            |  |
| Mercury                         | 0.06  | 10   | 16  | 0.1*                                 | 0.066         | 0.037         | 0.027          | 0.029         | 0.077          | 0.03           | 0.28           | < 0.023        | < 0.018        |  |
| Semi-mobile (elemental) mercury |   |  |   |                                      | 0.1*          |               |                |               |                |                |                | 0.2            |                |  |
| Selenium                        | 0.48  | 390  | 10000   | 1000                                 | < 1.3         | < 1.2         | < 1.3          | < 1.2         | 1.4            | < 1.1          | 3.4            | < 1.2          | 1.5            |  |
| Silver                          | 0.55  | 390  | 10000   | 1000                                 | < 1.3         | < 1.2         | < 1.3          | < 1.2         | < 1.3          | < 1.1          | < 1.2          | < 1.2          | 2.2            |  |
| Analyte                         | RCRA Regulatory Level   | Soil Component of the Groundwater Ingestion Exposure Route Class I | Soil Component of the Groundwater Ingestion Exposure Route Class II |                                      |               |               |                |               |                |                |                |                |                |  |
| <b>TCLP Metals (mg/L)</b>       |   |  |   |                                      |               |               |                |               |                |                |                |                |                |  |
| Arsenic                         | 5   | 0.05   | 0.2   |                                      | < 0.01        | < 0.01        | < 0.01         | < 0.01        | < 0.01         | < 0.01         | < 0.01         | < 0.01         | 0.019          |  |
| Barium                          | 100   | 2  | 2   |                                      | < 0.5         | < 0.5         | < 0.5          | 0.73          | < 0.5          | < 0.5          | < 0.5          | < 0.5          | 1              |  |
| Cadmium                         | 1   | 0.005  | 0.05  |                                      | < 0.005       | < 0.005       | < 0.005        | < 0.005       | < 0.005        | 0.021          | < 0.005        | 0.079          |                |  |
| Chromium                        | 5   | 0.1  | 1   |                                      | < 0.01        | < 0.01        | < 0.01         | < 0.01        | < 0.01         | < 0.01         | < 0.01         | < 0.01         | < 0.01         |  |
| Lead                            | 5   | 0.0075   | 0.1   |                                      | 0.013         | 0.0085        | 0.0064         | 0.0054        | 0.016          | 0.0067         | 0.093          | < 0.005        | 0.32           |  |
| Mercury                         | 0.2   | 0.002  | 0.01  |                                      | < 0.0002      | < 0.0002      | < 0.0002       | < 0.0002      | < 0.0002       | < 0.0002       | < 0.0002       | < 0.0002       | < 0.0002       |  |
| Selenium                        | 1   | 0.05   | 0.05  |                                      | < 0.01        | < 0.01        | < 0.01         | < 0.01        | < 0.01         | < 0.01         | < 0.01         | < 0.01         | < 0.01         |  |
| Silver                          | 5   | 0.05   | —   |                                      | < 0.01        | < 0.01        | < 0.01         | < 0.01        | < 0.01         | < 0.01         | < 0.01         | < 0.01         | < 0.01         |  |
| pH                              |   | 2.0 < pH < 12.5  |   |                                      | 7.6           | 7.5           | 7.5            | 7.8           | 7.8            | 7.1            | 7.3            | 7.9            | 8.3            |  |

Note:

NA - Not Available

\* - Tier 1 inhalation exposure route-specific values for soils was considered for comparison.

\*\*-Background Tier 1 remediation value for soil ingestion under 35 IAC 742, "For the ingestion route for arsenic, see 742 Appendix A, Table G."

Bold and Italicized analytical value. Exceeded residential remediation objective

Bold, Italicized and Highlighted analytical value: Exceeded construction worker remediation objective

**Table 1.**  
**Summary of Soil Analytical Results**  
**ComEd Crawford GS-13**  
**Chicago, Illinois**

| Analyte                   |  | Tier 1<br>Residential<br>Remediation<br>Objective | Tier 1<br>Commercial /<br>Industrial<br>Remediation<br>Objective | Tier 1<br>Construction<br>Worker<br>Objective | SB-1 (3.5'-5')   | SB-5 (3.5'-5')   | SB-8 (8.5-10')   | SB-9 (6-7.5')    | SB-10 (1-2.5')   | SB-11 (1-2.5')   | SB-12 (3.5-5')   | SB-13 (3.5-5')   | SB-14 (3.5-5')   |
|---------------------------|--|---|--|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| VOCs (mg/Kg)              |  |   |  |   | 05/14/2012 12:27 | 05/14/2012 15:55 | 05/15/2012 15:38 | 05/16/2012 09:15 | 05/15/2012 09:55 | 05/17/2012 08:45 | 05/17/2012 09:50 | 05/17/2012 11:10 | 05/17/2012 13:15 |
| Acetone                   |  | 25  | 25   | 100000  | < 0.11           | < 0.12           | < 0.078          | < 0.092          | < 0.098          | < 0.1            | < 0.15           | < 0.099          | 0.083            |
| Benzene                   |  | 0.03  | 0.03   | 2.2   | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Bromodichloromethane      |  | 0.6   | 0.6  | 2000  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Bromoform                 |  | 0.8   | 0.8  | 140   | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Bromomethane              |  | 0.2   | 0.2  | 3.9   | < 0.015          | < 0.016          | < 0.01           | < 0.012          | < 0.013          | < 0.014          | < 0.02           | < 0.013          | < 0.011          |
| 2-Butanone                |  | NA  | NA   | NA  | < 0.11           | < 0.12           | < 0.078          | < 0.092          | < 0.098          | < 0.1            | < 0.15           | < 0.099          | < 0.079          |
| Carbon disulfide          |  | 32  | 32   | 9   | < 0.076          | < 0.078          | < 0.052          | < 0.061          | < 0.066          | < 0.069          | < 0.1            | < 0.066          | < 0.053          |
| Carbon tetrachloride      |  | 0.07  | 0.07   | 0.9   | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Chlorobenzene             |  | 1   | 1  | 1.3   | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Chloroethane              |  | NA  | NA   | 97  | < 0.015          | < 0.016          | < 0.01           | < 0.012          | < 0.013          | < 0.014          | < 0.02           | < 0.013          | < 0.011          |
| Chloroform                |  | 0.3   | 0.3  | 0.76  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Chloromethane             |  | NA  | NA   | 11  | < 0.015          | < 0.016          | < 0.01           | < 0.012          | < 0.013          | < 0.014          | < 0.02           | < 0.013          | < 0.011          |
| Dibromochloromethane      |  | 0.4   | 0.4  | 1300  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| 1,1-Dichloroethane        |  | 23  | 23   | 130   | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| 1,2-Dichloroethane        |  | 0.02  | 0.02   | 0.99  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| 1,1-Dichloroethene        |  | 0.06  | 0.06   | 3   | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| cis-1,2-Dichloroethene    |  | 0.4   | 0.4  | 1200  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| trans-1,2-Dichloroethene  |  | 0.7   | 0.7  | 3100  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| 1,2-Dichloropropane       |  | 0.03  | 0.03   | 0.5   | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| cis-1,3-Dichloropropene   |  | 0.004*  | 0.004*   | 0.39*   | < 0.003          | < 0.0031         | < 0.0021         | < 0.0024         | < 0.0026         | < 0.0028         | < 0.004          | < 0.0026         | < 0.0021         |
| trans-1,3-Dichloropropene |  | 0.004*  | 0.004*   | 0.39*   | < 0.003          | < 0.0031         | < 0.0021         | < 0.0024         | < 0.0026         | < 0.0028         | < 0.004          | < 0.0026         | < 0.0021         |
| Ethylbenzene              |  | 13  | 13   | 58  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| 2-Hexanone                |  | NA  | NA   | NA  | < 0.03           | < 0.031          | < 0.021          | < 0.024          | < 0.026          | < 0.028          | < 0.04           | < 0.026          | < 0.021          |
| 4-Methyl-2-pentanone      |  | NA  | NA   | NA  | < 0.03           | < 0.031          | < 0.021          | < 0.024          | < 0.026          | < 0.028          | < 0.04           | < 0.026          | < 0.021          |
| Methylene chloride        |  | 0.02  | 0.02   | 34  | < 0.015          | < 0.016          | < 0.01           | < 0.012          | < 0.013          | < 0.014          | < 0.02           | < 0.013          | < 0.011          |
| Methyl tert-butyl ether   |  | 0.32  | 0.32   | 140   | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Styrene                   |  | 4   | 4  | 430   | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| 1,1,2,2-Tetrachloroethane |  | 2000  | 2000   | 2000  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Tetrachloroethene         |  | 0.06  | 0.06   | 28  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Toluene                   |  | 12  | 12   | 42  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| 1,1,1-Trichloroethane     |  | 2   | 2  | 1200  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| 1,1,2-Trichloroethane     |  | 0.02  | 0.02   | 1800  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Tnchloroethene            |  | 0.06  | 0.06   | 12  | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Vinyl chloride            |  | 0.01  | 0.01   | 1.1   | < 0.0076         | < 0.0078         | < 0.0052         | < 0.0061         | < 0.0066         | < 0.0069         | < 0.01           | < 0.0066         | < 0.0053         |
| Xylenes, Total            |  | 150   | 150  | 5.6   | < 0.023          | < 0.023          | < 0.016          | < 0.018          | < 0.02           | < 0.021          | < 0.03           | < 0.02           | < 0.016          |
| Soluble Sulfates (mg/Kg)  |  | --  | --   | --  | 2690             | 7670             | < 610            | 3290             | < 620            | 8570             | 13500            | < 1200           | < 590            |

Note:  
NA - Not Available

\* - Tier I inhalation exposure route-specific values for soils was considered for comparison.

\*\*-Background Tier 1 remediation value for soil ingestion under 35 IAC 742, "For the ingestion route for arsenic, see 742 Appendix A, Table G."

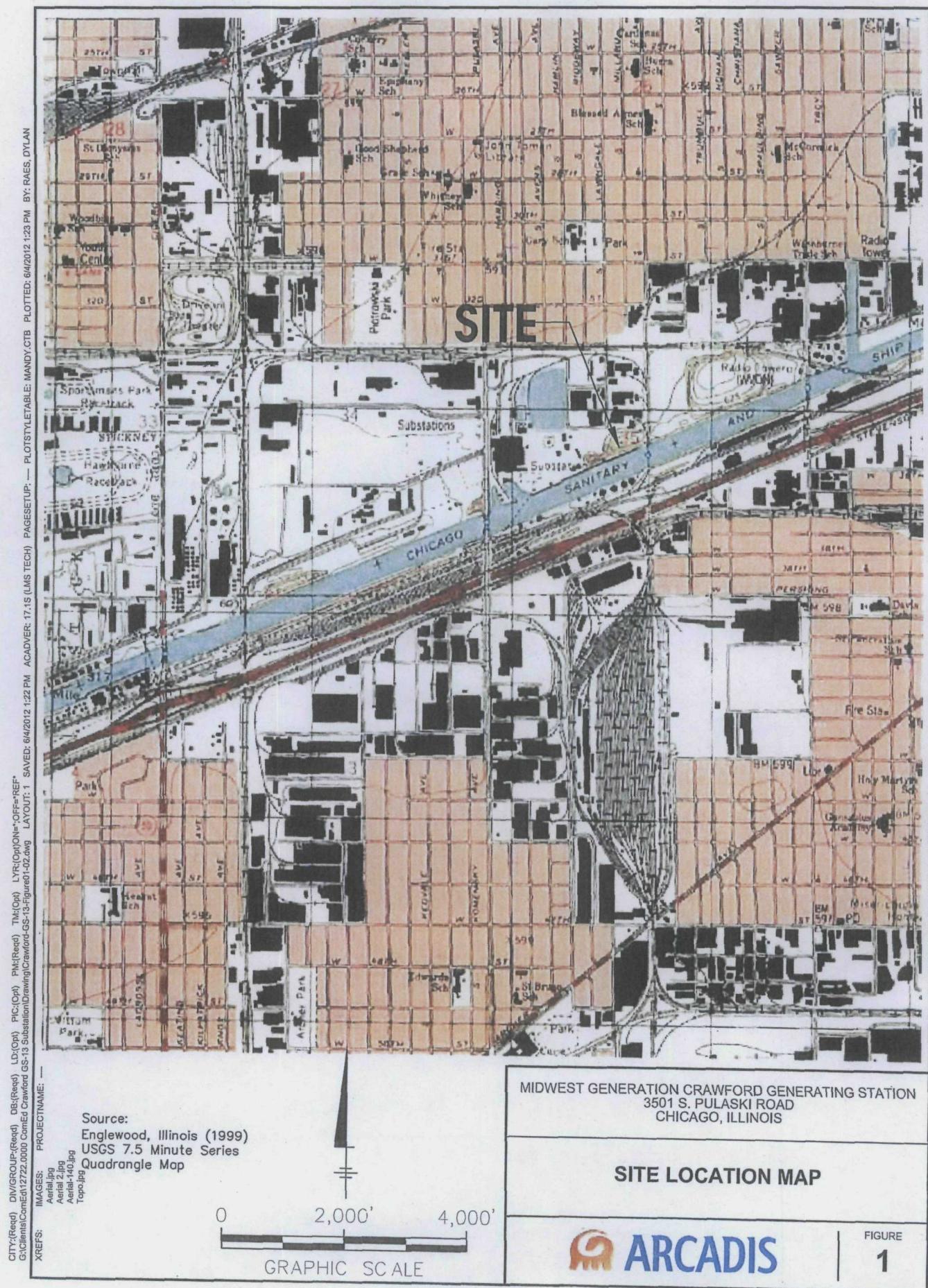
**Bold and Italicized analytical value:** Exceeded residential remediation objective

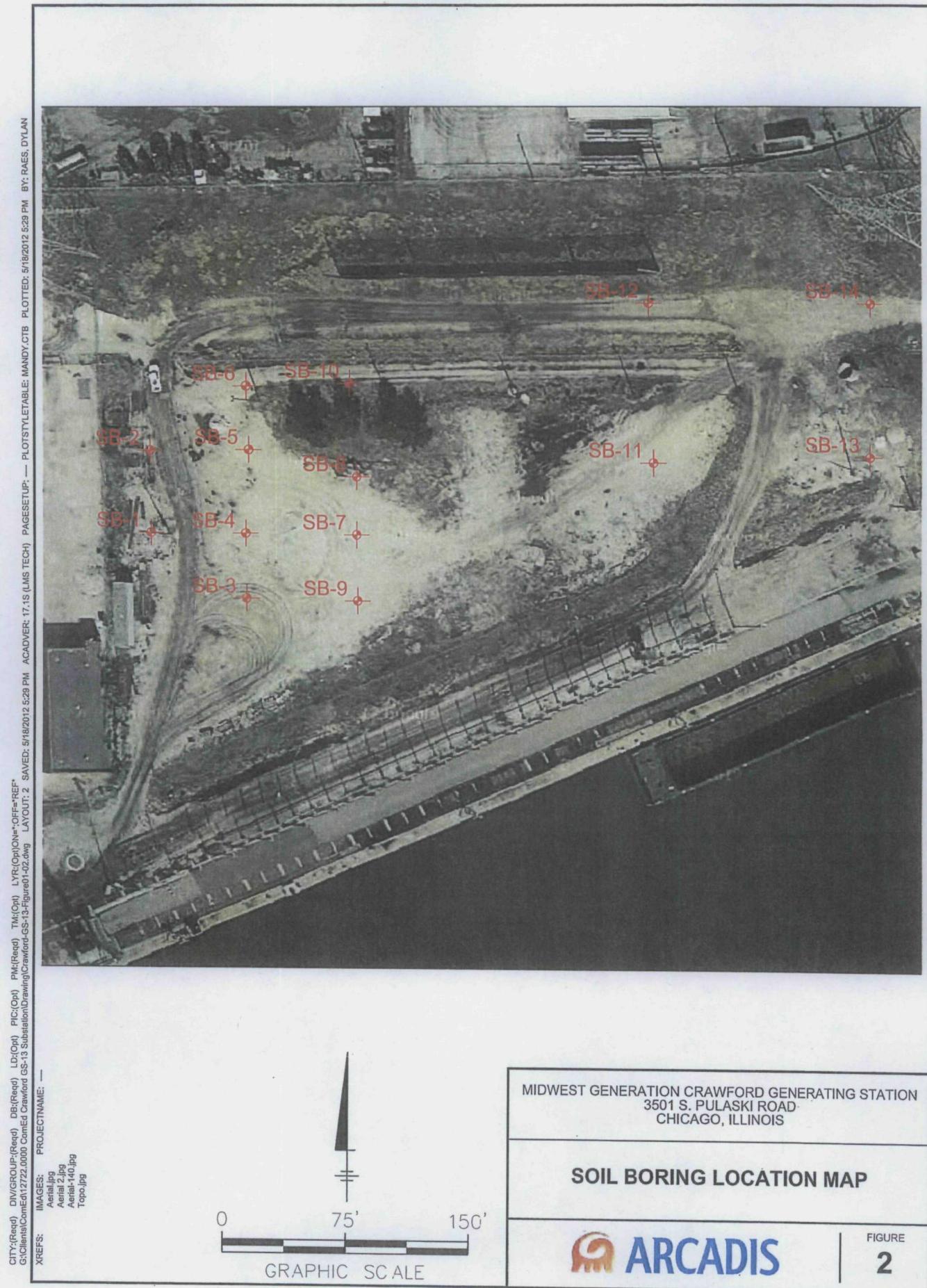
**Bold, Italicized and Highlighted analytical value:** Exceeded construction worker remediation objective

**ARCADIS**

**Figures**

COMC0000513





COMC0000515

13 of 85

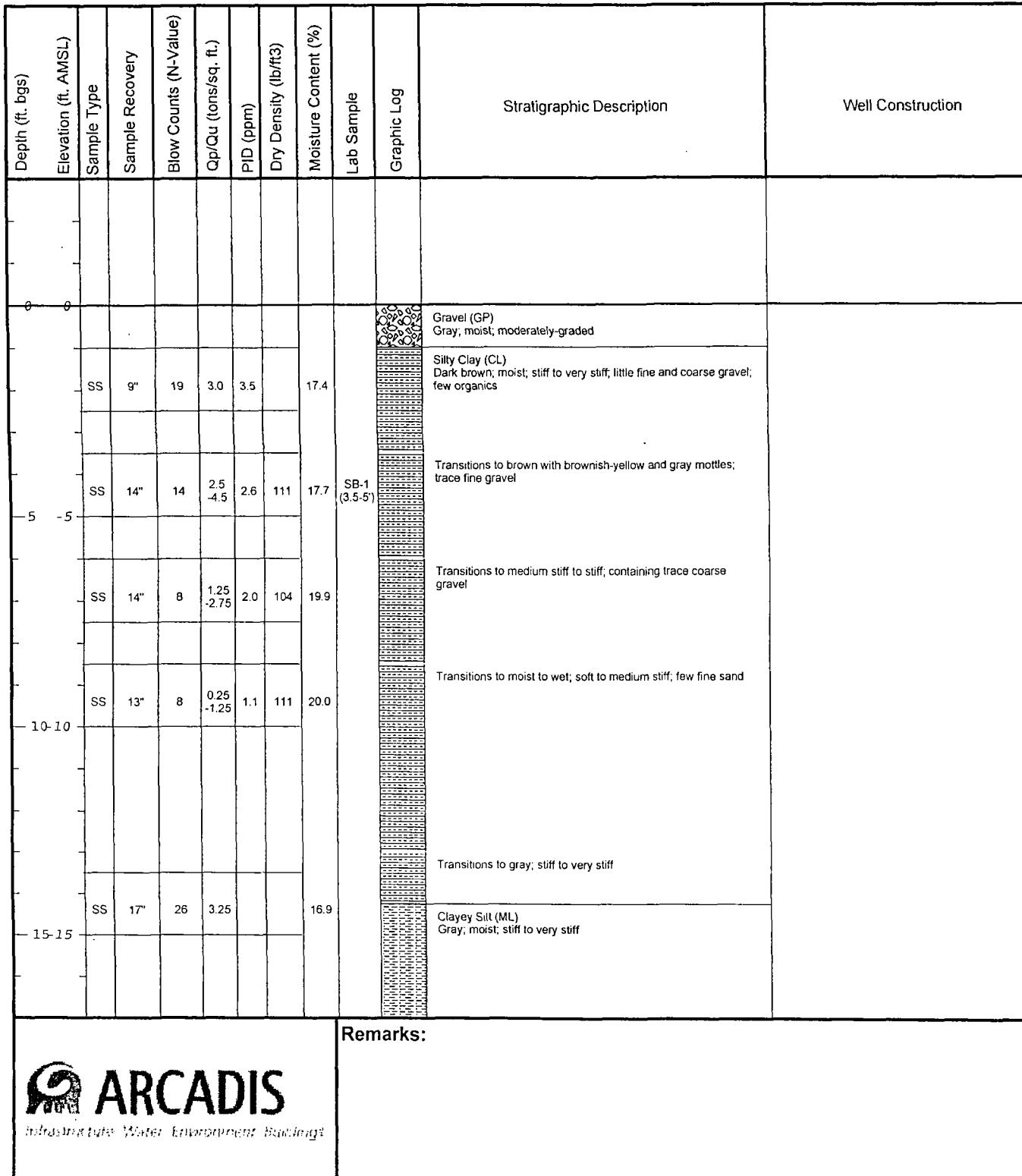


## **Attachment 1**

Soil Boring Logs

COMC0000516

|   |   |   |
|---|---|---|
| Date Start/Finish: 5/14/12<br>Drilling Company: K&S Engineers<br>Driller's Name: Reuben Perez & Ed Deluca<br>Drilling Method: Hollow Stem Auger<br>Auger Size: 4"<br>Rig Type: Truck Mounted Rotary Drill Rig<br>Sampling Method: Split Spoon | First Encountered Water: 8.5' bgs<br>Stabilized Water: 16.8' bgs<br>Casing Elevation: Not Surveyed<br>Borehole Depth: 25' bgs<br>Surface Elevation: Not Surveyed<br>Descriptions By: Dylan Raes | Well ID/Boring ID: SB-1<br>Client: Commonwealth Edison<br>Site Location: ComEd Crawford GS-13 |
|---|---|---|



Client: Commonwealth Edison

Well/Boring ID: SB-1

## Site Location:

ComEd Crawford GS-13

Borehole Depth: 25' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Stratigraphic Description |                 |                       |                      |           |                                   |                      |            | Well Construction   |
|-----------------|----------------------|---------------------------|-----------------|-----------------------|----------------------|-----------|-----------------------------------|----------------------|------------|---|
|                 |                      | Sample Type               | Sample Recovery | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft <sup>3</sup> ) | Moisture Content (%) | Lab Sample |   |
| 20-20           | SS                   | 18"                       | 16              | 4.25                  |                      | 117       |                                   | 16.7                 |            | Silly Clay (CL)<br>Gray; moist; very stiff; trace fine gravel |
| 25-25           | SS                   | 16"                       | 21              | 4.25                  |                      | 116       |                                   | 11.9                 |            |   |
| 30-30           |                      |                           |                 |                       |                      |           |                                   |                      |            |   |



Remarks:

|  |                                   |                                     |
|--|-----------------------------------|-------------------------------------|
| Date Start/Finish: 5/14/12               | First Encountered Water: 8.5' bgs | Well ID/Boring ID: SB-2             |
| Drilling Company: K&S Engineers          | Stabilized Water: Dry             | Client: Commonwealth Edison         |
| Driller's Name: Reuben Perez & Ed Deluca | Casing Elevation: Not Surveyed    |                                     |
| Drilling Method: Hollow Stem Auger       | Borehole Depth: 25' bgs           |                                     |
| Auger Size: 4"                           | Surface Elevation: Not Surveyed   |                                     |
| Rig Type: Truck Mounted Rotary Drill Rig |                                   | Site Location: ComEd Crawford GS-13 |
| Sampling Method: Split Spoon             | Descriptions By: Dylan Raes       |                                     |



**Remarks:**

Client: Commonwealth Edison

Well/Boring ID: SB-2

## Site Location:

ComEd Crawford GS-13

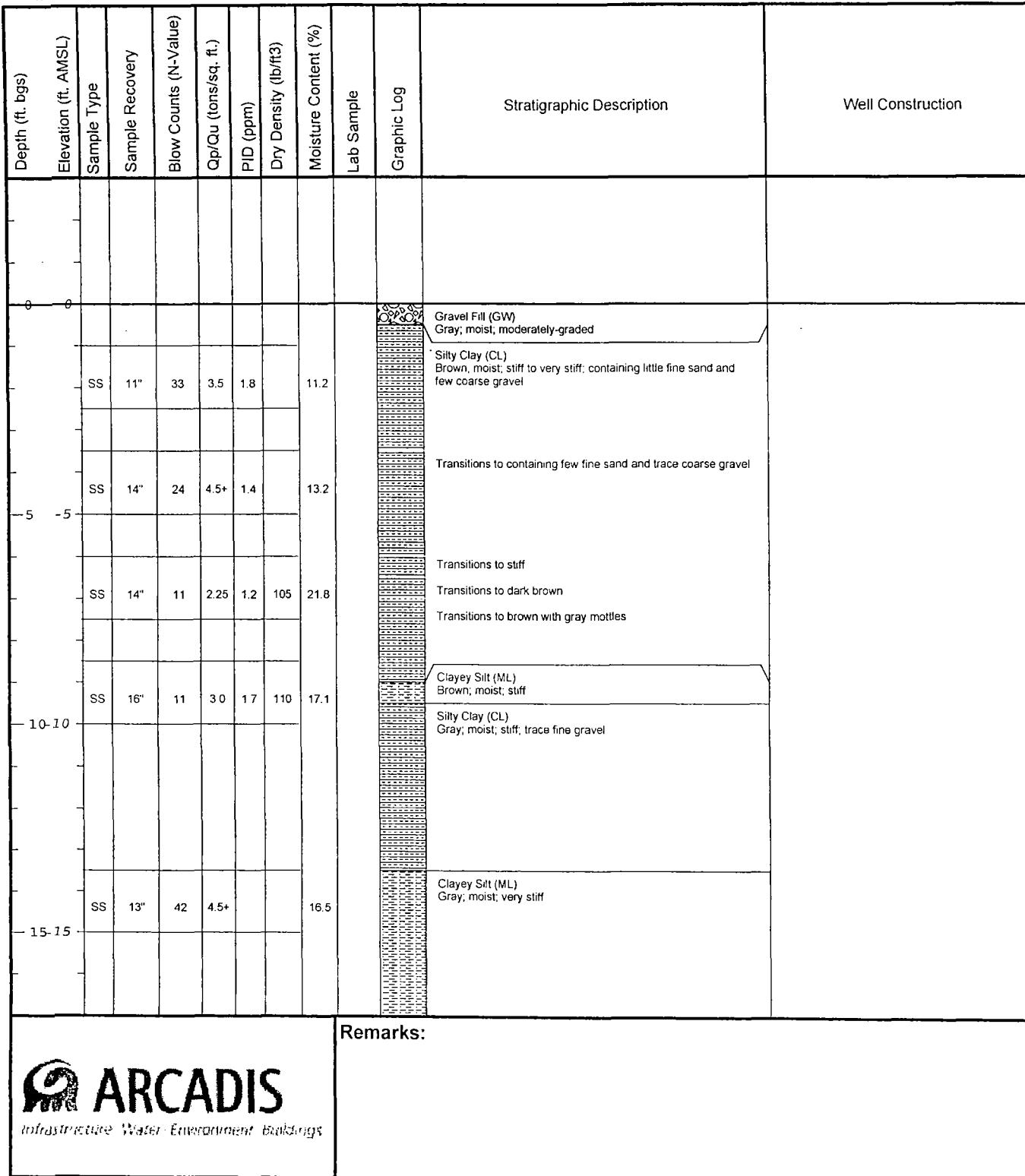
Borehole Depth: 25' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Sample Type | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/f3) | Moisture Content (%) | Lab Sample | Graphic Log | Stratigraphic Description  | Well Construction |
|-----------------|----------------------|-------------|-----------------------|----------------------|-----------|---------------------|----------------------|------------|-------------|--|-------------------|
| 20-20           | SS 17"               | 16          | 4.5                   |                      | 117       |                     | 16.2                 |            |             | Silty Clay (CL)<br>Gray; moist; stiff to very stiff; trace fine gravel |                   |
| 25-25           | SS 18"               | 21          | 3.5                   |                      | 114       |                     | 16.5                 |            |             |  |                   |
| 30-30           |                      |             |                       |                      |           |                     |                      |            |             |  |                   |
| 35-35           |                      |             |                       |                      |           |                     |                      |            |             |  |                   |

## Remarks:



|   |  |   |
|---|--|---|
| Date Start/Finish: 5/15/12<br>Drilling Company: K&S Engineers<br>Driller's Name: Reuben Perez & Ed Deluca<br>Drilling Method: Hollow Stem Auger<br>Auger Size: 4"<br>Rig Type: Truck Mounted Rotary Drill Rig<br>Sampling Method: Split Spoon | First Encountered Water: 18.5' bgs<br>Stabilized Water: 20' bgs<br>Casing Elevation: Not Surveyed<br>Borehole Depth: 25' bgs<br>Surface Elevation: Not Surveyed<br>Descriptions By: Dylan Raes | Well ID/Boring ID: SB-3<br>Client: Commonwealth Edison<br>Site Location: ComEd Crawford GS-13 |
|---|--|---|



Client: Commonwealth Edison

Well/Boring ID: SB-3

## Site Location:

ComEd Crawford GS-13

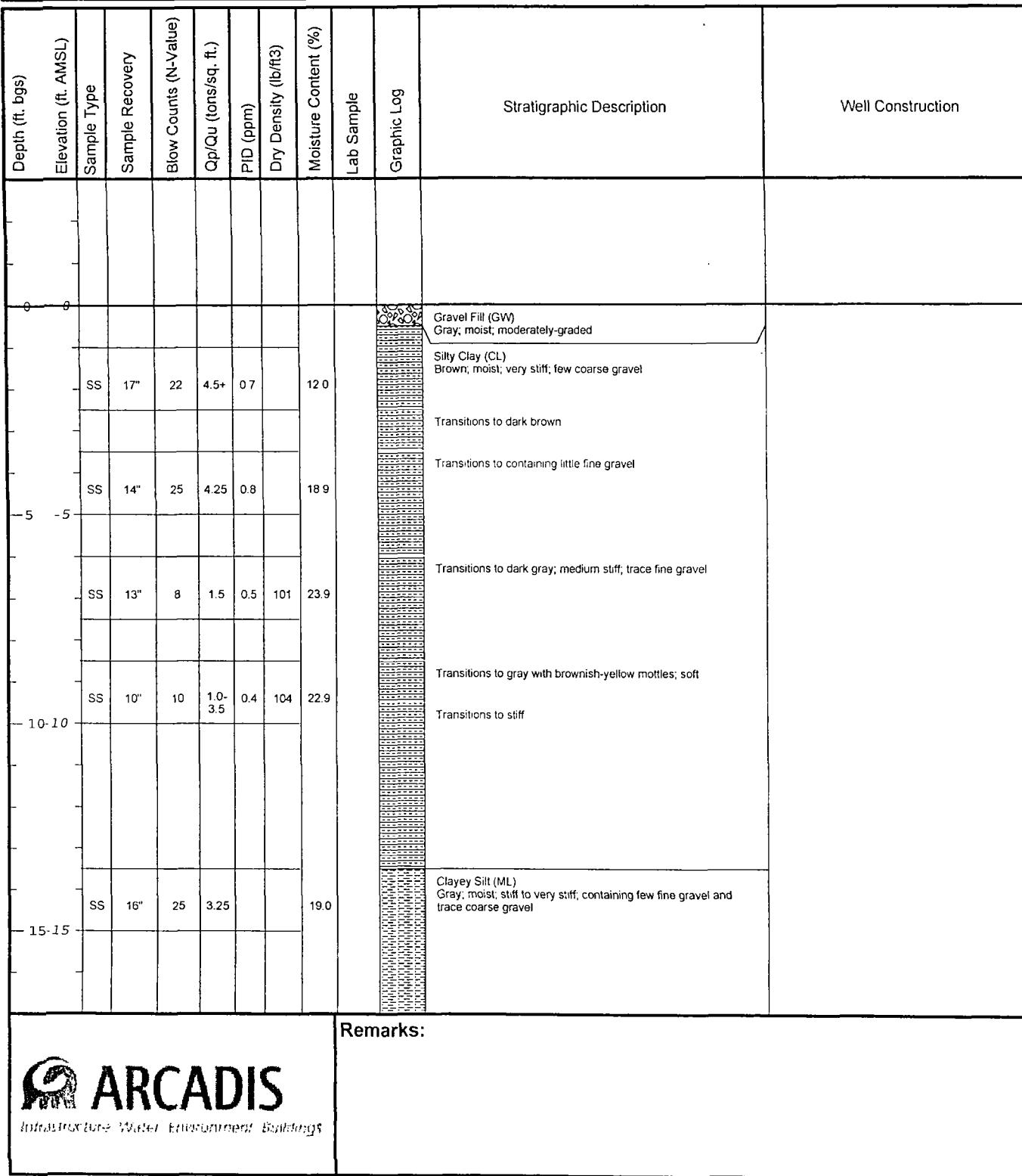
Borehole Depth: 25' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Sample Type | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft <sup>3</sup> ) | Moisture Content (%) | Lab Sample | Graphic Log | Stratigraphic Description   | Well Construction |
|-----------------|----------------------|-------------|-----------------------|----------------------|-----------|-----------------------------------|----------------------|------------|-------------|---|-------------------|
| 20-20           | SS 14"               | 33          | 3.0                   |                      |           | 15.6                              |                      |            |             | Sandy Silt (ML)<br>Gray; wet; stiff; trace coarse gravel  |                   |
| 25-25           | SS 15"               | 21          | 3.25<br>4.5+          |                      | 117       | 16.5                              |                      |            |             | Silty Sand (SM)<br>Gray; wet; dense; fine grained; poorly graded<br><br>Silty Clay (CL)<br>Gray; moist; stiff to very stiff; trace fine gravel<br>Transitions to very stiff; containing trace coarse gravel |                   |
| 30-30           |                      |             |                       |                      |           |                                   |                      |            |             |   |                   |
| 35-35           |                      |             |                       |                      |           |                                   |                      |            |             |   |                   |

Remarks:



|   |  |   |
|---|--|---|
| Date Start/Finish: 5/14/12<br>Drilling Company: K&S Engineers<br>Driller's Name: Reuben Perez & Ed Deluca<br>Drilling Method: Hollow Stem Auger<br>Auger Size: 4"<br>Rig Type: Truck Mounted Rotary Drill Rig<br>Sampling Method: Split Spoon | First Encountered Water: Not Encountered<br>Stabilized Water: Dry<br>Casing Elevation: Not Surveyed<br>Borehole Depth: 25' bgs<br>Surface Elevation: Not Surveyed<br>Descriptions By: Dylan Raes | Well ID/Boring ID: SB-4<br>Client: Commonwealth Edison<br>Site Location: ComEd Crawford GS-13 |
|---|--|---|



Client: Commonwealth Edison

Well/Boring ID: SB-4

## Site Location:

ComEd Crawford GS-13

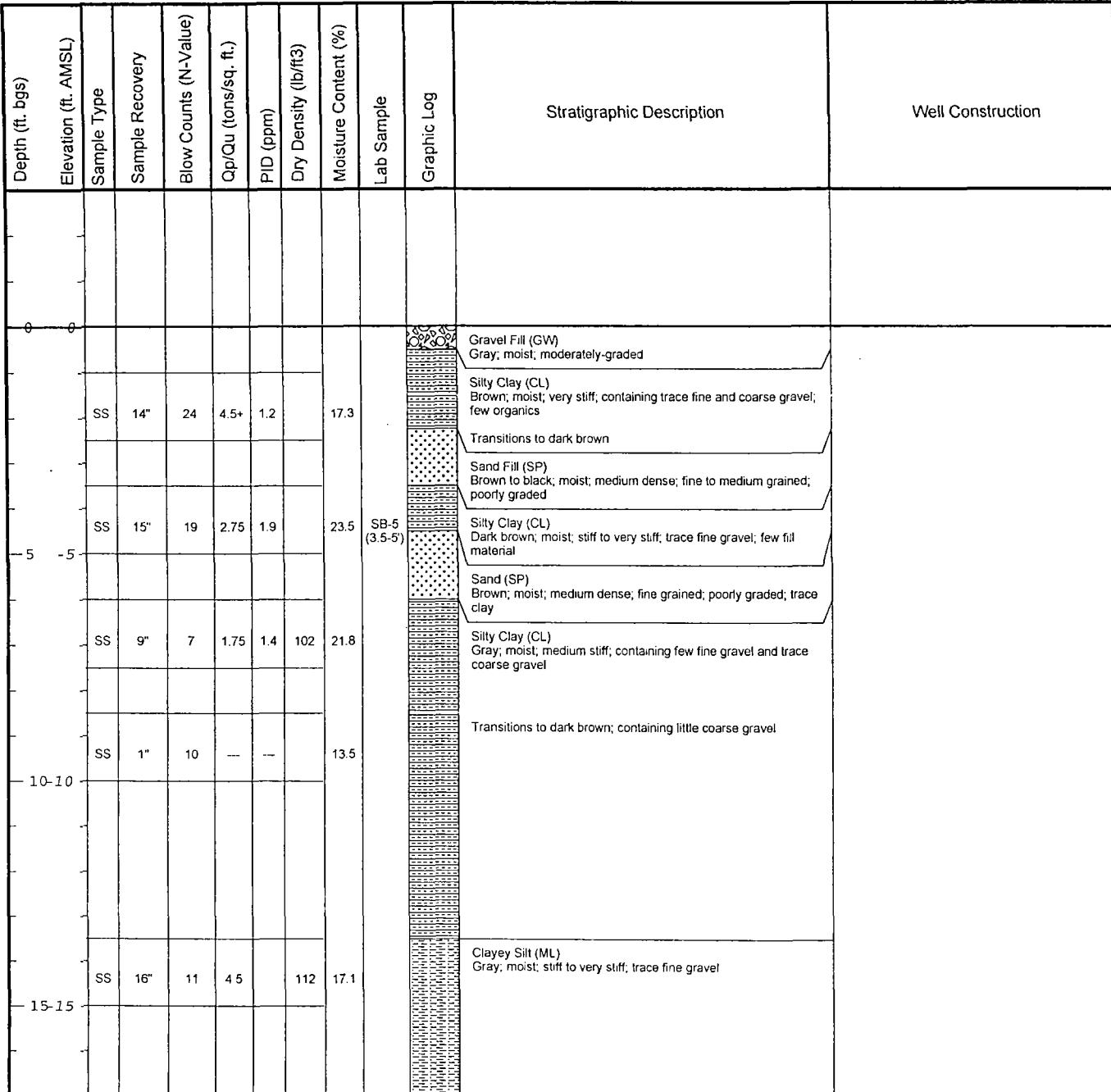
Borehole Depth: 25' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Stratigraphic Description |                 |                       |                       |           |                      |                      |            | Well Construction  |
|-----------------|----------------------|---------------------------|-----------------|-----------------------|-----------------------|-----------|----------------------|----------------------|------------|--|
|                 |                      | Sample Type               | Sample Recovery | Blow Counts (N-Value) | Qpi/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft³) | Moisture Content (%) | Lab Sample |  |
| 20-20           | SS 18"               | 23                        | 2.0-4.5+        |                       | 114                   |           | 16.8                 |                      |            | Silty Clay (CL)<br>Gray; moist; medium stiff; trace fine gravel<br><br>Sand Lense (SP)<br>Fine to medium grained; wet    |
| 25-25           | SS 18"               | 21                        | 4.5+            |                       | 122                   |           | 13.8                 |                      |            | Transitions to containing little fine gravel and few coarse gravel<br><br>Sand Lense (SP)<br>Fine to medium grained; wet |
| 30-30           |                      |                           |                 |                       |                       |           |                      |                      |            | Silty Sand (SP)<br>Gray; moist; medium dense; fine grained; poorly graded  |
| 35-35           |                      |                           |                 |                       |                       |           |                      |                      |            |  |

## Remarks:



|  |  |  |
|--|--|--|
| <b>Date Start/Finish:</b> 5/14/12<br><b>Drilling Company:</b> K&S Engineers<br><b>Driller's Name:</b> Reuben Perez & Ed Deluca<br><b>Drilling Method:</b> Hollow Stem Auger<br><b>Auger Size:</b> 4"<br><b>Rig Type:</b> Truck Mounted Rotary Drill Rig<br><b>Sampling Method:</b> Split Spoon | <b>First Encountered Water:</b> 24' bgs<br><b>Stabilized Water:</b> 23' bgs<br><b>Casing Elevation:</b> Not Surveyed<br><b>Borehole Depth:</b> 25' bgs<br><b>Surface Elevation:</b> Not Surveyed<br><b>Descriptions By:</b> Dylan Raes | <b>Well ID/Boring ID:</b> SB-5<br><b>Client:</b> Commonwealth Edison<br><b>Site Location:</b> ComEd Crawford GS-13 |
|--|--|--|



**Remarks:**



 ARCADIS  
Infrastructure Water Environment Building

Client: Commonwealth Edison

Well/Boring ID: SB-5

## Site Location:

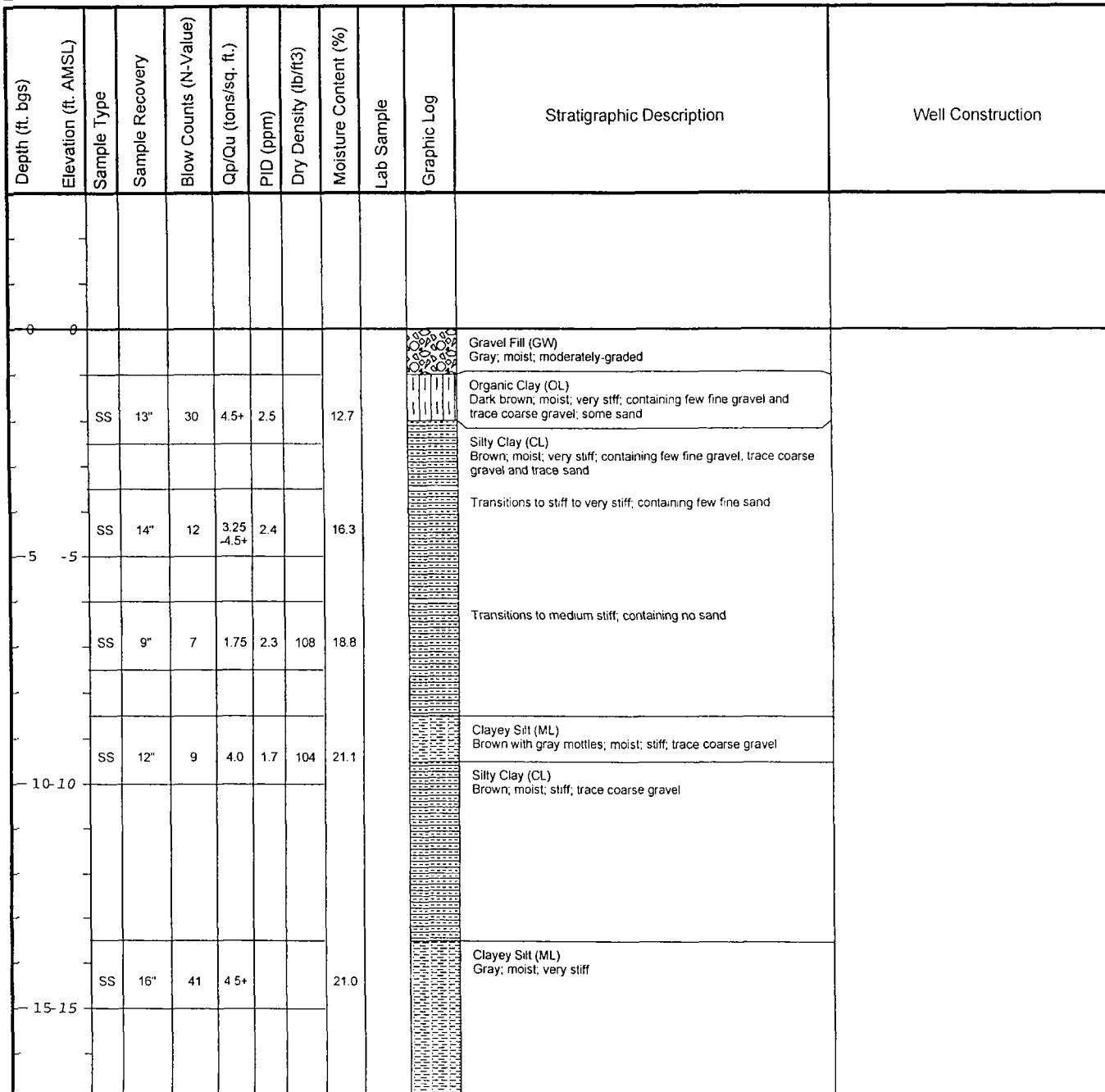
ComEd Crawford GS-13

Borehole Depth: 25' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Sample Type | Sample Recovery | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft³) | Moisture Content (%) | Lab Sample | Graphic Log | Stratigraphic Description  | Well Construction |
|-----------------|----------------------|-------------|-----------------|-----------------------|----------------------|-----------|----------------------|----------------------|------------|-------------|--|-------------------|
| 20-20           |                      | SS          | 18"             | 26                    | 3.5-4.5+             |           | 121                  | 14.0                 |            |             | Silty Clay (CL)<br>Gray; moist; very stiff; containing trace fine and coarse gravel  |                   |
| 25-25           |                      | SS          | 16"             | 18                    | 3.0-4.5+             |           | 117                  | 16.3                 |            |             | Transitions to stiff to very stiff<br><br>Sand (SP)<br>Gray; wet, medium dense; fine to medium grained; poorly graded; trace coarse gravel |                   |
| 30-30           |                      |             |                 |                       |                      |           |                      |                      |            |             | Silty Clay (CL)<br>Gray; moist; very stiff; containing trace fine and coarse gravel  |                   |
| 35-35           |                      |             |                 |                       |                      |           |                      |                      |            |             |  |                   |

|   |          |
|---|----------|
|  <b>ARCADIS</b><br><i>Infrastructure Water Environment thinkdesign</i> | Remarks: |
|---|----------|

|   |  |   |
|---|--|---|
| Date Start/Finish: 5/15/12<br>Drilling Company: K&S Engineers<br>Driller's Name: Reuben Perez & Ed Deluca<br>Drilling Method: Hollow Stem Auger<br>Auger Size: 4"<br>Rig Type: Truck Mounted Rotary Drill Rig<br>Sampling Method: Split Spoon | First Encountered Water: Not Encountered<br>Stabilized Water: Dry<br>Casing Elevation: Not Surveyed<br>Borehole Depth: 25' bgs<br>Surface Elevation: Not Surveyed<br>Descriptions By: Dylan Raes | Well ID/Boring ID: SB-6<br>Client: Commonwealth Edison<br>Site Location: ComEd Crawford GS-13 |
|---|--|---|



Remarks:

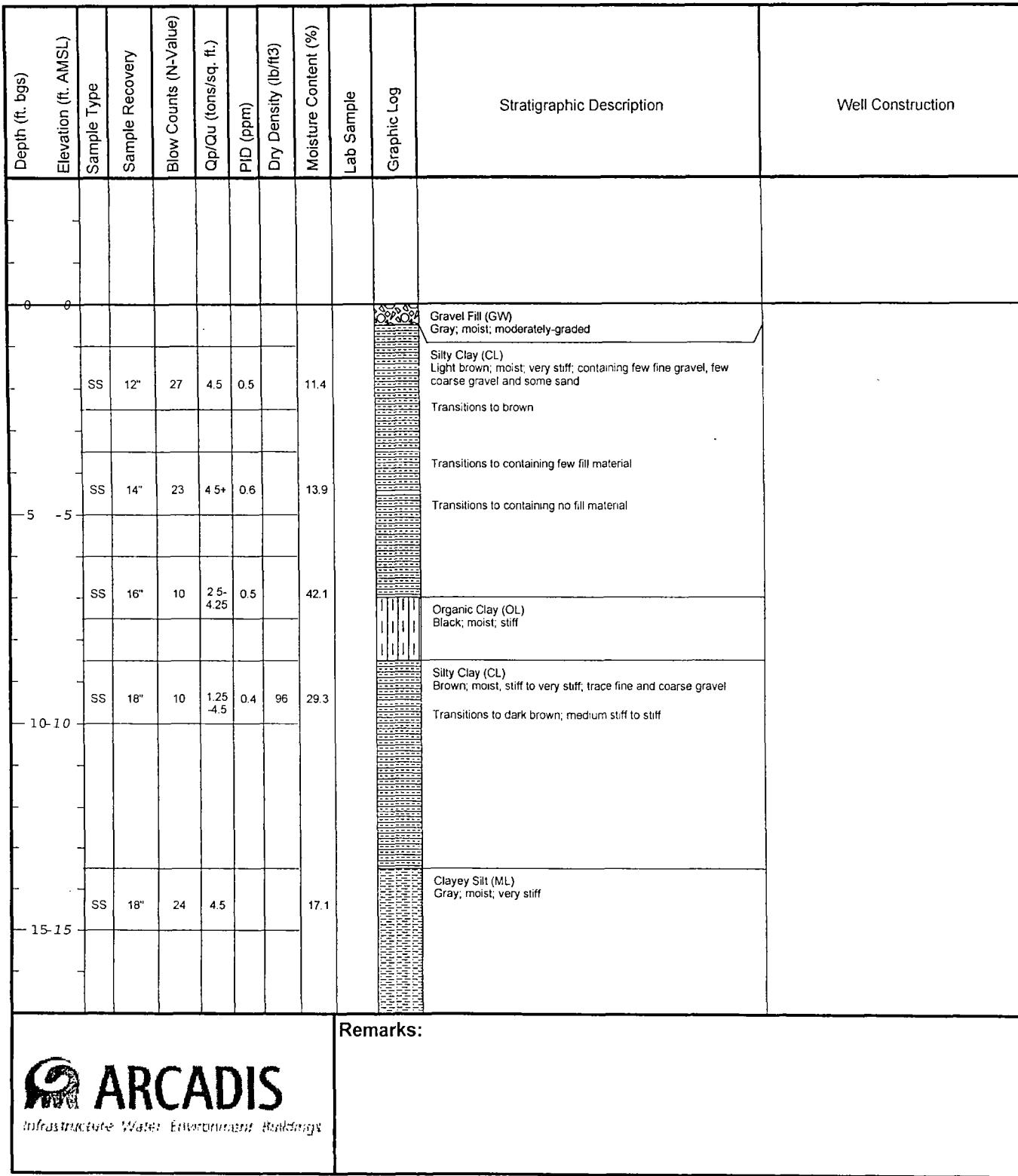


|                             |  |  |  |  |  |  |  |                         |
|-----------------------------|--|--|--|--|--|--|--|-------------------------|
| Client: Commonwealth Edison |  |  |  |  |  |  |  | Well/Boring ID: SB-6    |
| Site Location:              |  |  |  |  |  |  |  | Borehole Depth: 25' bgs |
| ComEd Crawford GS-13        |  |  |  |  |  |  |  |                         |

| Depth (ft. bgs) | Elevation (ft. AMSL) | Sample Type | Sample Recovery | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft <sup>3</sup> ) | Moisture Content (%) | Stratigraphic Description   | Well Construction |
|-----------------|----------------------|-------------|-----------------|-----------------------|----------------------|-----------|-----------------------------------|----------------------|---|-------------------|
| 20-20           |                      | SS          | 18"             | 20                    | 4.25                 |           | 117                               | 14.2                 |   |                   |
| 25-25           |                      | SS          | 18"             | 22                    | 4.0                  |           | 111                               | 16.9                 | Silty Clay (CL)<br>Gray, moist, very stiff; containing trace fine and coarse gravel |                   |
| 30-30           |                      |             |                 |                       |                      |           |                                   |                      |   |                   |
| 35-35           |                      |             |                 |                       |                      |           |                                   |                      |   |                   |

|  |          |
|--|----------|
|  ARCADIS<br>Infrastructure Water Environment Building | Remarks: |
|--|----------|

|   |  |   |
|---|--|---|
| Date Start/Finish: 5/15/12<br>Drilling Company: K&S Engineers<br>Driller's Name: Reuben Perez & Ed Deluca<br>Drilling Method: Hollow Stem Auger<br>Auger Size: 4"<br>Rig Type: Truck Mounted Rotary Drill Rig<br>Sampling Method: Split Spoon | First Encountered Water: 18.5' bgs<br>Stabilized Water: 21' bgs<br>Casing Elevation: Not Surveyed<br>Borehole Depth: 25' bgs<br>Surface Elevation: Not Surveyed<br>Descriptions By: Dylan Raes | Well ID/Boring ID: SB-7<br>Client: Commonwealth Edison<br>Site Location: ComEd Crawford GS-13 |
|---|--|---|



Client: Commonwealth Edison

Well/Boring ID: SB-7

**Site Location:**

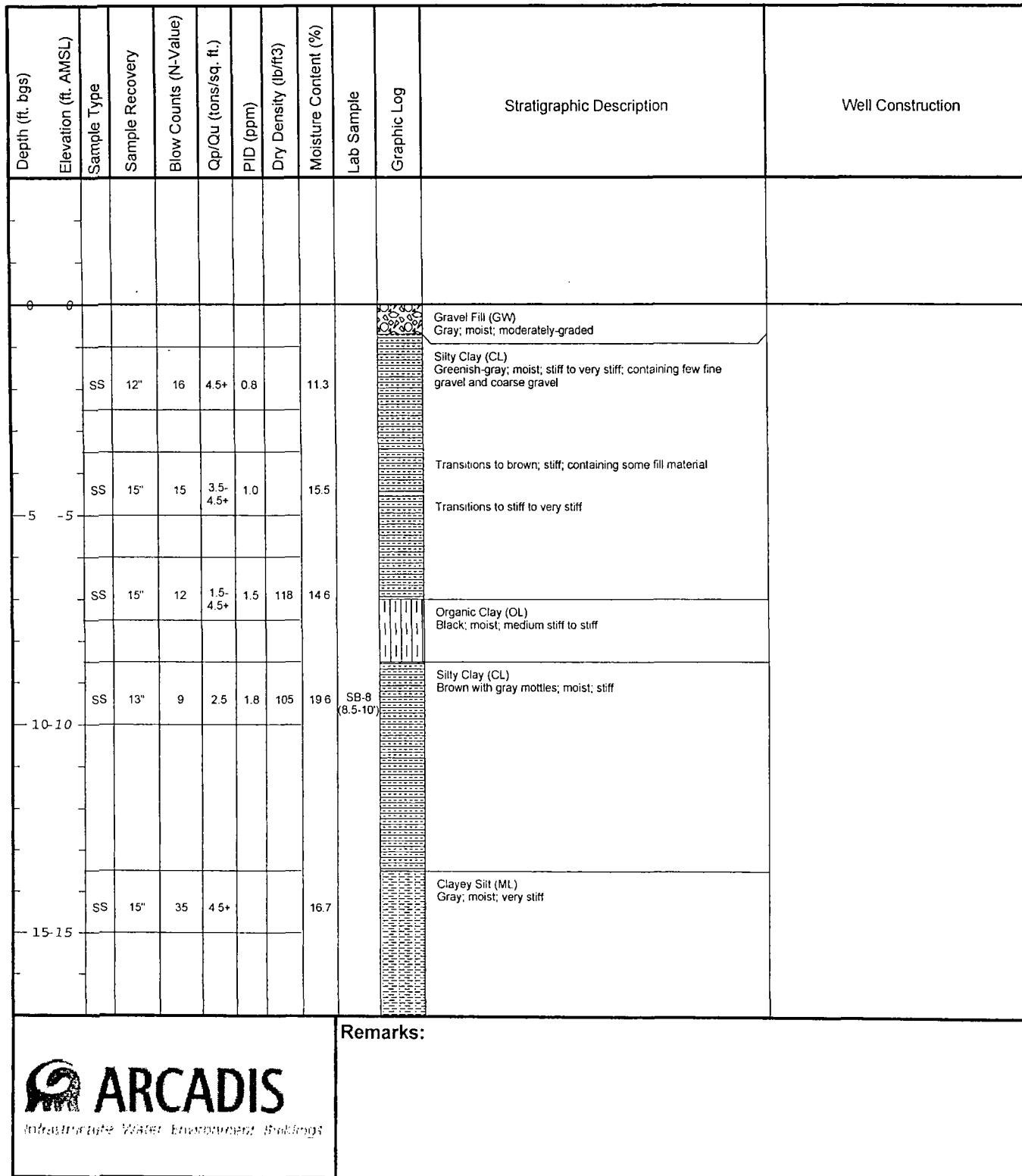
ComEd Crawford GS-13

Borehole Depth: 25' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Sample Type | Sample Recovery | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft³) | Moisture Content (%) | Lab Sample | Graphic Log | Stratigraphic Description   | Well Construction |
|-----------------|----------------------|-------------|-----------------|-----------------------|----------------------|-----------|----------------------|----------------------|------------|-------------|---|-------------------|
| 20-20           | SS 15"               | 36          | 1.5             |                       |                      |           |                      | 19.2                 |            |             | Transitions to wet; medium stiff to very stiff  |                   |
| 25-25           | SS 18"               | 28          | 4.5+            |                       |                      | 115       | 16.9                 |                      |            |             | Sand (SP)<br>Gray; wet; medium dense; fine to medium grained; poorly graded   |                   |
| 30-30           |                      |             |                 |                       |                      |           |                      |                      |            |             | Clayey Silt (ML)<br>Gray; wet; very stiff   |                   |
| 35-35           |                      |             |                 |                       |                      |           |                      |                      |            |             | Sand (SP)<br>Gray; wet; medium dense; fine to medium grained; poorly graded<br>Silty Clay (CL)<br>Gray; moist; very stiff |                   |

**Remarks:**

|  |                                    |                                     |
|--|------------------------------------|-------------------------------------|
| Date Start/Finish: 5/15/12               | First Encountered Water: 19.6' bgs | Well ID/Boring ID: SB-8             |
| Drilling Company: K&S Engineers          | Stabilized Water: Dry              | Client: Commonwealth Edison         |
| Driller's Name: Reuben Perez & Ed Deluca | Casing Elevation: Not Surveyed     |                                     |
| Drilling Method: Hollow Stem Auger       | Borehole Depth: 25' bgs            |                                     |
| Auger Size: 4"                           | Surface Elevation: Not Surveyed    |                                     |
| Rig Type: Truck Mounted Rotary Drill Rig |                                    |                                     |
| Sampling Method: Split Spoon             | Descriptions By: Dylan Raes        | Site Location: ComEd Crawford GS-13 |



Client: Commonwealth Edison

Well/Boring ID: SB-8

## Site Location:

ComEd Crawford GS-13

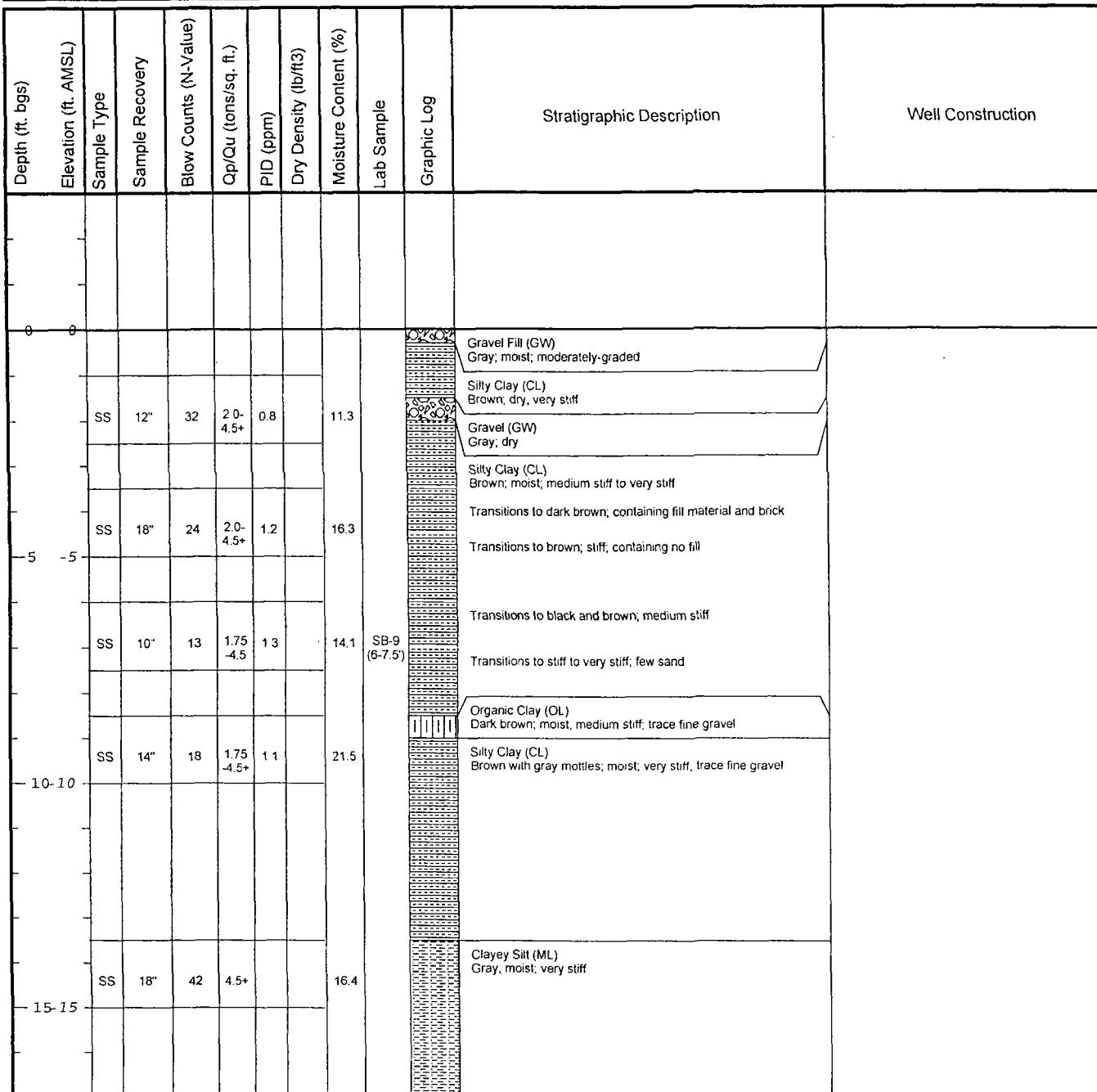
Borehole Depth: 25' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Sample Type | Sample Recovery | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft <sup>3</sup> ) | Moisture Content (%) | Lab Sample | Graphic Log | Stratigraphic Description   | Well Construction |
|-----------------|----------------------|-------------|-----------------|-----------------------|----------------------|-----------|-----------------------------------|----------------------|------------|-------------|---|-------------------|
| 20-20           |                      | SS          | 17"             | 21                    | 4.5                  |           | 111                               | 18.6                 |            |             | Sand Lense (SP)<br>Gray; wet; fine to moderately grained; poorly graded   |                   |
| 25-25           |                      | SS          | 18"             | 29                    | 4.5+                 |           |                                   | 14.1                 |            |             | Silty Clay (CL)<br>Gray; moist; very stiff<br><br>Transitions to containing few fine gravel and trace coarse gravel |                   |
| 30-30           |                      |             |                 |                       |                      |           |                                   |                      |            |             |   |                   |
| 35-35           |                      |             |                 |                       |                      |           |                                   |                      |            |             |   |                   |

Remarks:



|   |   |  |
|---|---|--|
| <b>Date Start/Finish:</b> 5/16/12               | <b>First Encountered Water:</b> 18.5' bgs | <b>Well ID/Boring ID:</b> SB-9             |
| <b>Drilling Company:</b> K&S Engineers          | <b>Stabilized Water:</b> 27' bgs          |  |
| <b>Driller's Name:</b> Reuben Perez & Ed Deluca | <b>Casing Elevation:</b> Not Surveyed     | <b>Client:</b> Commonwealth Edison         |
| <b>Drilling Method:</b> Hollow Stem Auger       | <b>Borehole Depth:</b> 50' bgs            |  |
| <b>Auger Size:</b> 4"                           | <b>Surface Elevation:</b> Not Surveyed    |  |
| <b>Rig Type:</b> Truck Mounted Rotary Drill Rig |   | <b>Site Location:</b> ComEd Crawford GS-13 |
| <b>Sampling Method:</b> Split Spoon             | <b>Descriptions By:</b> Dylan Raes        |  |



#### **Remarks:**



Client: Commonwealth Edison

Well/Boring ID: SB-9

## Site Location:

ComEd Crawford GS-13

Borehole Depth: 50' bgs

| Depth (ft. bgs)   | Elevation (ft. AMSL) | Sample Type | Sample Recovery | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft <sup>3</sup> ) | Moisture Content (%) | Stratigraphic Description   | Well Construction                              |
|---|----------------------|-------------|-----------------|-----------------------|----------------------|-----------|-----------------------------------|----------------------|---|--|
| 20-20   |                      | SS          | 14"             | 27                    | 1.25                 |           |                                   | 21.7                 |   | Transitions to wet; medium stiff to very stiff |
| 25-25   |                      | SS          | 13"             | 20                    | 2.75-4.25            |           | 113                               | 17.5                 | Silty Clay (CL)<br>Gray, moist; trace fine gravel<br>Transitions to very stiff  |  |
| 30-30   |                      | SS          | 18"             | 22                    | 3.75-4.5+            |           | 120                               | 15.9                 | Transitions to stiff<br>Transitions to very stiff, containing trace coarse gravel   |  |
| 35-35   |                      | SS          | 16"             | 33                    | 3.25-4.5+            |           | 129                               | 12.0                 | Transitions to stiff; containing trace coarse and fine gravel<br>Transitions to very stiff; containing few fine gravel<br><br>Sand (SP)<br>Gray, moist; fine to medium grained; poorly graded |  |
|   |                      |             |                 |                       |                      |           |                                   | Remarks:             |   |  |
|  <b>ARCADIS</b><br><i>Infrastructure Water Environment Buildings</i> |                      |             |                 |                       |                      |           |                                   |                      |   |  |

Client: Commonwealth Edison

Well/Boring ID: SB-9

## Site Location:

ComEd Crawford GS-13

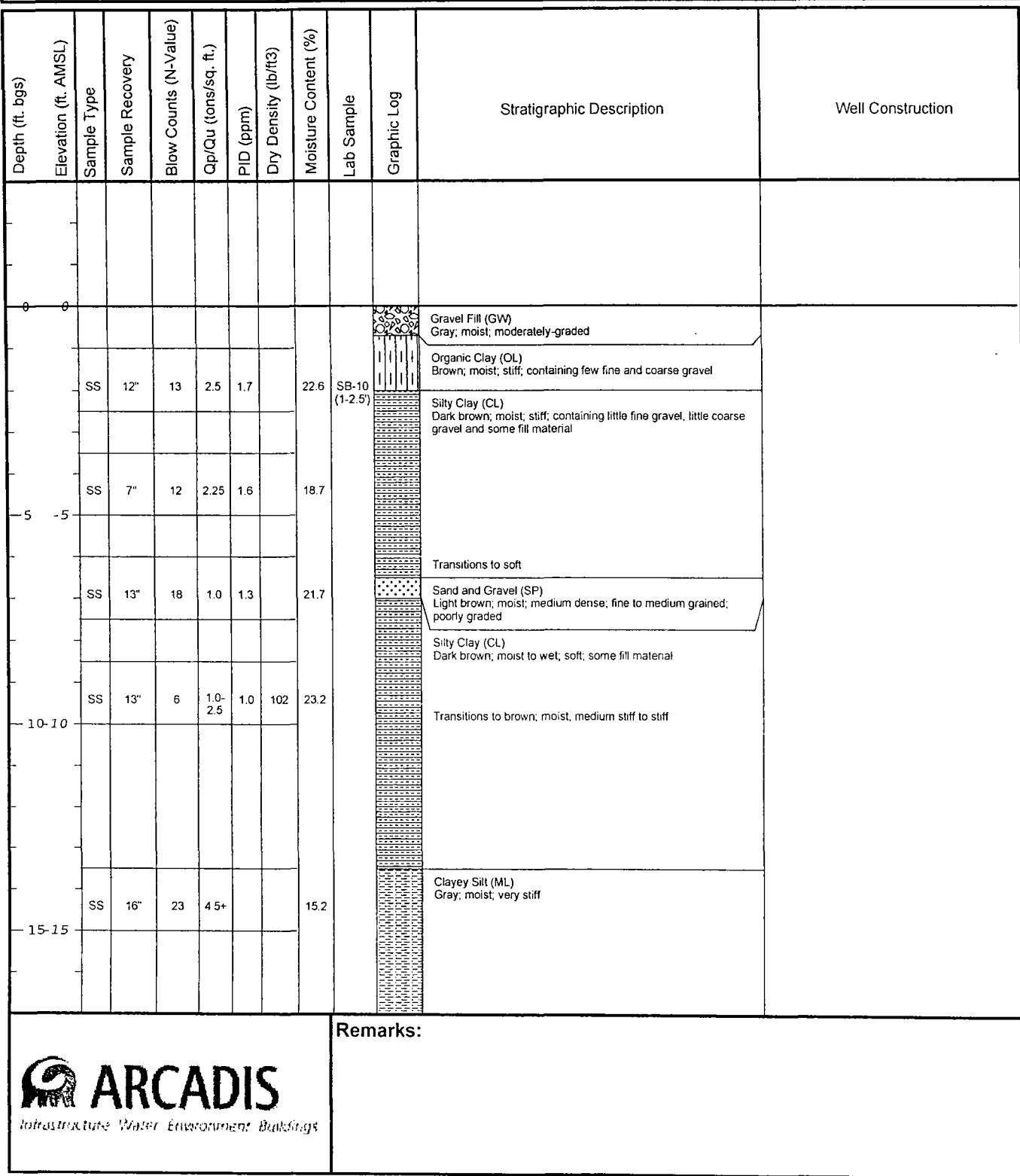
Borehole Depth: 50' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Stratigraphic Description |                 |                       |                      |           |                      |                      |            |             |  | Well Construction |
|-----------------|----------------------|---------------------------|-----------------|-----------------------|----------------------|-----------|----------------------|----------------------|------------|-------------|--|-------------------|
|                 |                      | Sample Type               | Sample Recovery | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft³) | Moisture Content (%) | Lab Sample | Graphic Log |  |                   |
| 40-40           |                      | SS                        |                 | 39                    | 4.5+                 |           | 123                  | 13.2                 |            |             | Silty Clay (CL)<br>Gray, moist, very stiff; containing few fine gravel and trace coarse gravel |                   |
| 45-45           |                      | SS                        | 13"             | 87                    | 4.0                  |           |                      | 18.5                 |            |             | Clayey Silt (ML)<br>Gray, wet; very stiff  |                   |
| 50-50           |                      | SS                        | 12"             | 42                    | 4.5+                 |           |                      | 14.7                 |            |             | Crushed Stone  |                   |
| 55-55           |                      |                           |                 |                       |                      |           |                      |                      |            |             | Silty Clay (CL)<br>Gray; moist, very stiff; containing trace fine gravel and few coarse gravel |                   |

Remarks:



|  |   |   |
|--|---|---|
| <b>Date Start/Finish:</b> 5/15/12<br><b>Drilling Company:</b> K&S Engineers<br><b>Driller's Name:</b> Reuben Perez & Ed Deluca<br><b>Drilling Method:</b> Hollow Stem Auger<br><b>Auger Size:</b> 4"<br><b>Rig Type:</b> Truck Mounted Rotary Drill Rig<br><b>Sampling Method:</b> Split Spoon | <b>First Encountered Water:</b> 7' bgs<br><b>Stabilized Water:</b> 47' bgs<br><b>Casing Elevation:</b> Not Surveyed<br><br><b>Borehole Depth:</b> 50' bgs<br><b>Surface Elevation:</b> Not Surveyed<br><br><b>Descriptions By:</b> Dylan Raes | <b>Well ID/Boring ID:</b> SB-10<br><br><b>Client:</b> Commonwealth Edison<br><br><b>Site Location:</b> ComEd Crawford GS-13 |
|--|---|---|



Project: EG012722.0000 Template: WLF geotech-USE THIS.lidx  
Data File:SB-10.dat

Date: 5/23/2012

Created/Edited by: Scott Nellis

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Client: Commonwealth Edison

Well/Boring ID: SB-10

## Site Location:

ComEd Crawford GS-13

Borehole Depth: 50' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Stratigraphic Description |                 |                       |                      |           |                                   |                      |            | Well Construction  |
|-----------------|----------------------|---------------------------|-----------------|-----------------------|----------------------|-----------|-----------------------------------|----------------------|------------|--|
|                 |                      | Sample Type               | Sample Recovery | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft <sup>3</sup> ) | Moisture Content (%) | Lab Sample |  |
| 20-20           | SS 17"               | 29                        | 3.5-4.5         |                       |                      |           |                                   | 12.8                 |            | Transitions to stiff to very stiff<br>Silty Clay (CL)<br>Gray; moist; very stiff   |
| 25-25           | SS 18"               | 27                        | 4.5+            |                       |                      |           |                                   | 16.4                 |            | Transitions to containing trace fine gravel<br>Clayey Silt (ML)<br>Gray; moist; very stiff; trace fine gravel<br>Silty Clay (CL)<br>Gray; moist; very stiff; containing trace fine and coarse gravel   |
| 30-30           | SS 18"               | 24                        | 4.5             | 114                   |                      |           |                                   | 16.6                 |            | Transitions to containing no coarse gravel   |
| 35-35           | SS 16"               | 23                        | 4.5+            |                       |                      |           |                                   | 9.4                  |            | Transitions to containing few fine and coarse gravel<br>Sand Lense (SP)<br>Gray; wet; fine grained; poorly graded<br>Silty Clay (CL)<br>Gray; moist; very stiff; containing few fine and coarse gravel |
|                 |                      |                           |                 |                       | Remarks:             |           |                                   |                      |            |  |



Client: Commonwealth Edison

Well/Boring ID: SB-10

## Site Location:

ComEd Crawford GS-13

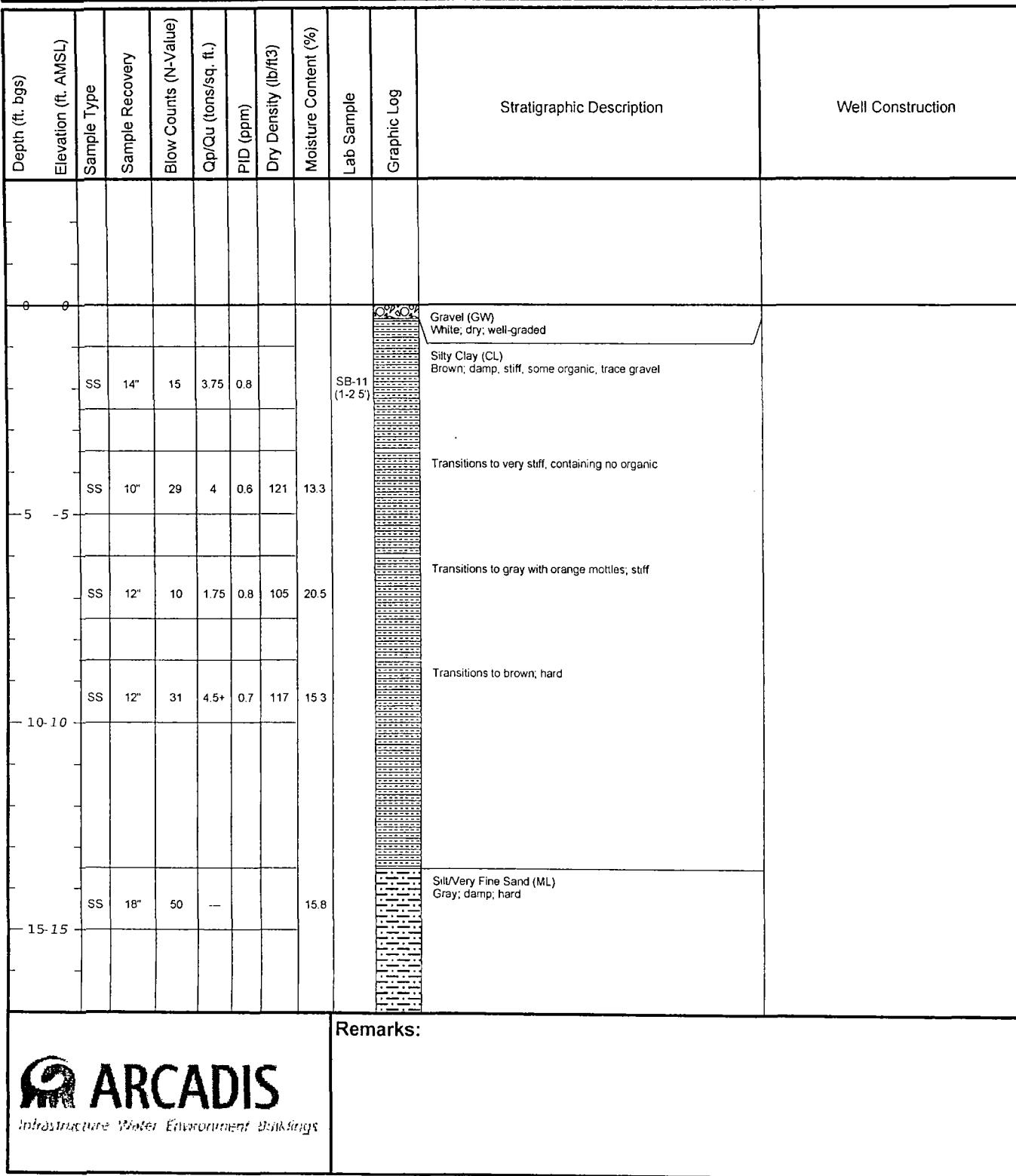
Borehole Depth: 50' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Sample Type | Sample Recovery | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft <sup>3</sup> ) | Moisture Content (%) | Lab Sample | Graphic Log | Stratigraphic Description   | Well Construction |
|-----------------|----------------------|-------------|-----------------|-----------------------|----------------------|-----------|-----------------------------------|----------------------|------------|-------------|---|-------------------|
| 40-40           |                      | SS          | 15"             | 27                    | 4.5+                 |           | 120                               |                      |            |             | Transitions to containing trace fine and coarse gravel                                      |                   |
| 45-45           |                      | SS          | 18"             | 31                    | 4.5+                 |           | 127                               |                      |            |             |   |                   |
| 50-50           |                      | SS          | 16"             | 74                    | 4.5+                 |           |                                   |                      |            |             | Clayey Silt (ML)<br>Gray; slightly moist; very stiff; containing few fine and coarse gravel |                   |
| 55-55           |                      |             |                 |                       |                      |           |                                   |                      |            |             |   |                   |

Remarks:



|   |  |  |
|---|--|--|
| Date Start/Finish: 5/17/12<br>Drilling Company: K&S Engineers<br>Driller's Name: Reuben Perez & Ed Deluca<br>Drilling Method: Hollow Stem Auger<br>Auger Size: 4"<br>Rig Type: Truck Mounted Rotary Drill Rig<br>Sampling Method: Split Spoon | First Encountered Water: Dry<br>Stabilized Water: Dry<br>Casing Elevation: Not Surveyed<br>Borehole Depth: 30' bgs<br>Surface Elevation: Not Surveyed<br>Descriptions By: Scott Nellis | Well ID/Boring ID: SB-11<br>Client: Commonwealth Edison<br>Site Location: ComEd Crawford GS-13 |
|---|--|--|



Client: Commonwealth Edison

Well/Boring ID: SB-11

## Site Location:

ComEd Crawford GS-13

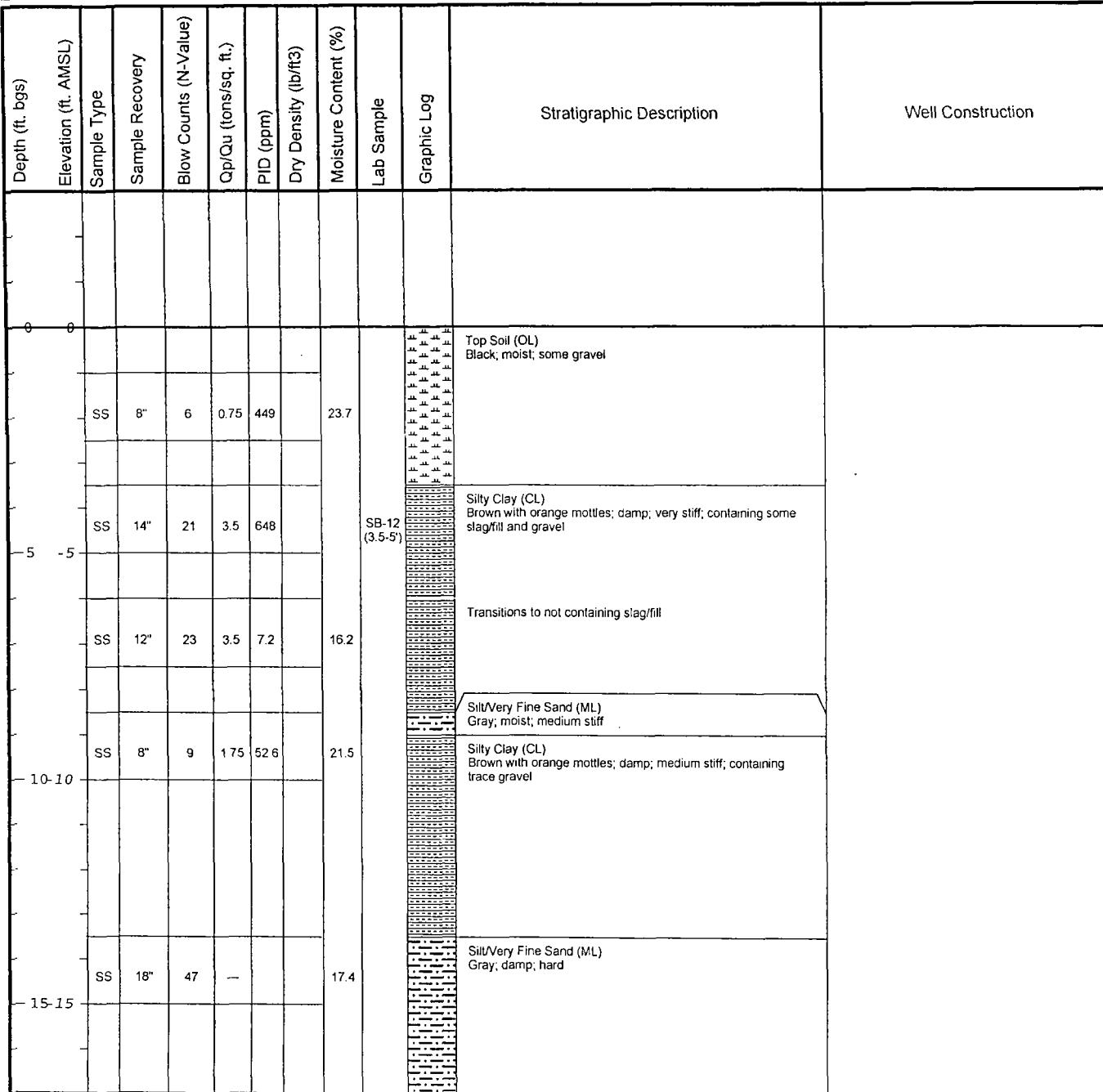
Borehole Depth: 30' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Sample Type | Sample Recovery | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft <sup>3</sup> ) | Moisture Content (%) | Stratigraphic Description                               | Well Construction |
|-----------------|----------------------|-------------|-----------------|-----------------------|----------------------|-----------|-----------------------------------|----------------------|---|-------------------|
| 20-20           |                      | SS          | 18"             | 37                    | 4.5+                 |           | 118                               | 13.4                 | Silty Clay (CL)<br>Gray; damp; very stiff; trace gravel |                   |
| 25-25           |                      | SS          | 18"             | 28                    | 4.5+                 |           | 117                               | 15.8                 |   |                   |
| 30-30           |                      | SS          | 18"             | 25                    | 4.5+                 |           | 116                               | 16.4                 |   |                   |
| 35-35           |                      |             |                 |                       |                      |           |                                   |                      |   |                   |

## Remarks:



|   |  |  |
|---|--|--|
| Date Start/Finish: 5/17/12<br>Drilling Company: K&S Engineers<br>Driller's Name: Reuben Perez & Ed Deluca<br>Drilling Method: Hollow Stem Auger<br>Auger Size: 4"<br>Rig Type: Truck Mounted Rotary Drill Rig<br>Sampling Method: Split Spoon | First Encountered Water: 28.5' bgs<br>Stabilized Water: 11' bgs<br>Casing Elevation: Not Surveyed<br>Borehole Depth: 30' bgs<br>Surface Elevation: Not Surveyed<br>Descriptions By: Scott Nellis | Well ID/Boring ID: SB-12<br>Client: Commonwealth Edison<br>Site Location: ComEd Crawford GS-13 |
|---|--|--|



**Remarks:**



Client: Commonwealth Edison

Well/Boring ID: SB-12

## Site Location:

CornEd Crawford GS-13

Borehole Depth: 30' bgs

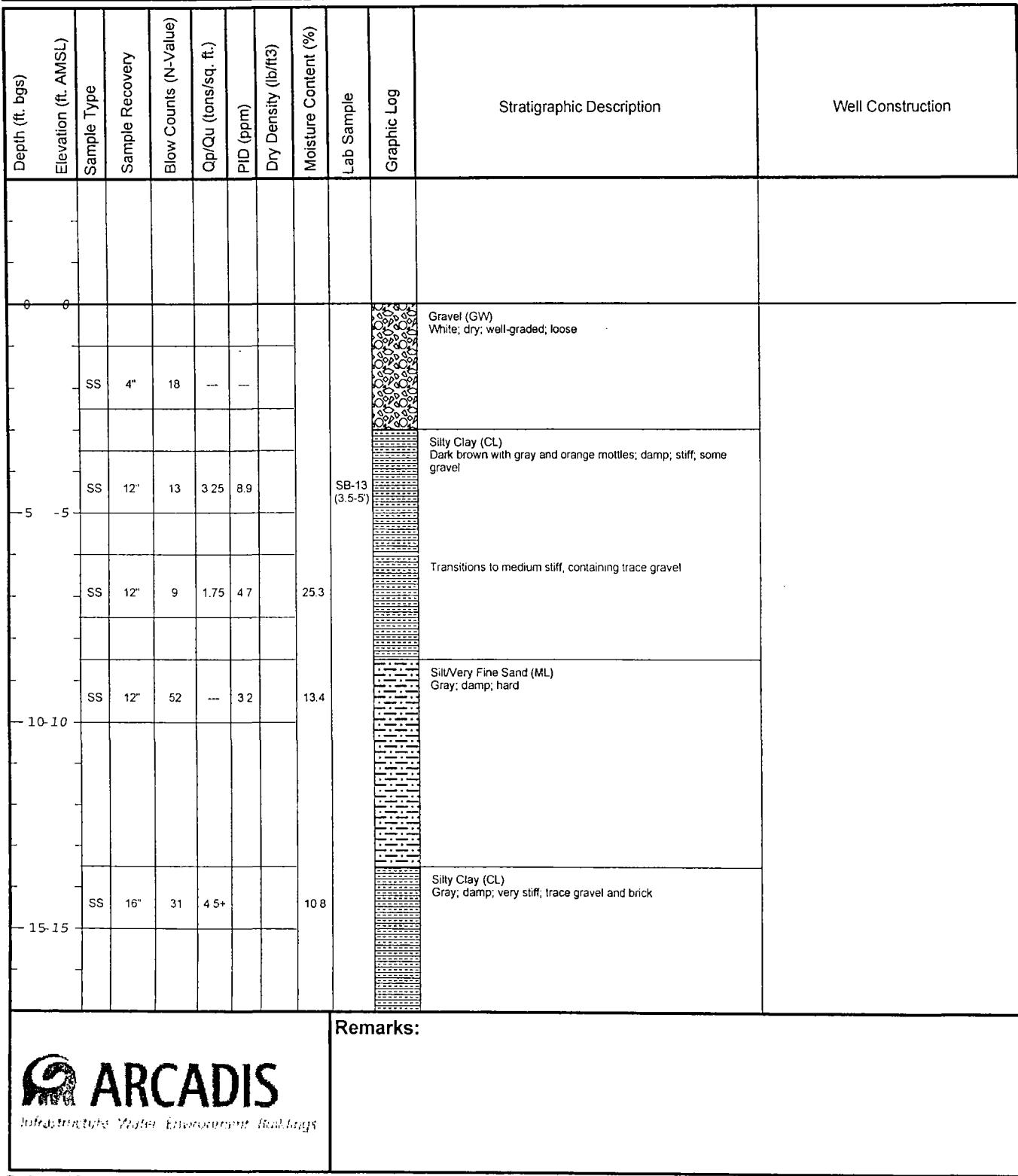
| Depth (ft. bgs) | Elevation (ft. AMSL) | Sample Type | Sample Recovery | Blow Counts (N-Value) | Qpr/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft <sup>3</sup> ) | Moisture Content (%) | Stratigraphic Description | Well Construction  |
|-----------------|----------------------|-------------|-----------------|-----------------------|-----------------------|-----------|-----------------------------------|----------------------|---------------------------|--|
|                 |                      |             |                 |                       |                       |           |                                   |                      | Lab Sample                | Graphic Log  |
| 20-20           |                      | SS          | 18"             | 47                    | --                    |           |                                   | 12.9                 |                           | Silty - Gravel Mix (GP-ML)<br>gray; moist to wet; dense, poorly graded |
| 25-25           |                      | SS          | 18"             | 27                    | 4.5+                  |           | 113                               | 16.7                 |                           | Silty Clay (CL)<br>Gray; damp, very stiff, trace gravel                |
| 30-30           |                      | SS          | 18"             | 31                    | 4.5+                  |           |                                   | 18.6                 |                           | Transitions to wet   |
| 35-35           |                      |             |                 |                       |                       |           |                                   |                      |                           |  |

## Remarks:



Infrastructure Water Environment Buildings

|   |   |  |
|---|---|--|
| <b>Date Start/Finish:</b> 5/17/12               | <b>First Encountered Water:</b> 18.5' bgs | <b>Well ID/Boring ID:</b> SB-13            |
| <b>Drilling Company:</b> K&S Engineers          | <b>Stabilized Water:</b> 13' bgs          |  |
| <b>Driller's Name:</b> Reuben Perez & Ed Deluca | <b>Casing Elevation:</b> Not Surveyed     |  |
| <b>Drilling Method:</b> Hollow Stem Auger       | <b>Borehole Depth:</b> 30' bgs            |  |
| <b>Auger Size:</b> 4"                           | <b>Surface Elevation:</b> Not Surveyed    |  |
| <b>Rig Type:</b> Truck Mounted Rotary Drill Rig |   |  |
| <b>Sampling Method:</b> Split Spoon             | <b>Descriptions By:</b> Scott Nellis      | <b>Client:</b> Commonwealth Edison         |
|   |   | <b>Site Location:</b> ComEd Crawford GS-13 |



Project: EG012722.0000 Template: WLF geotech-USE THIS.ldfx  
Data File:SB-13.dat

Date: 5/23/2012

Created/Edited by: Scott Nellis

Page: 1 of 2

Client: Commonwealth Edison

Well/Boring ID: SB-13

## Site Location:

ComEd Crawford GS-13

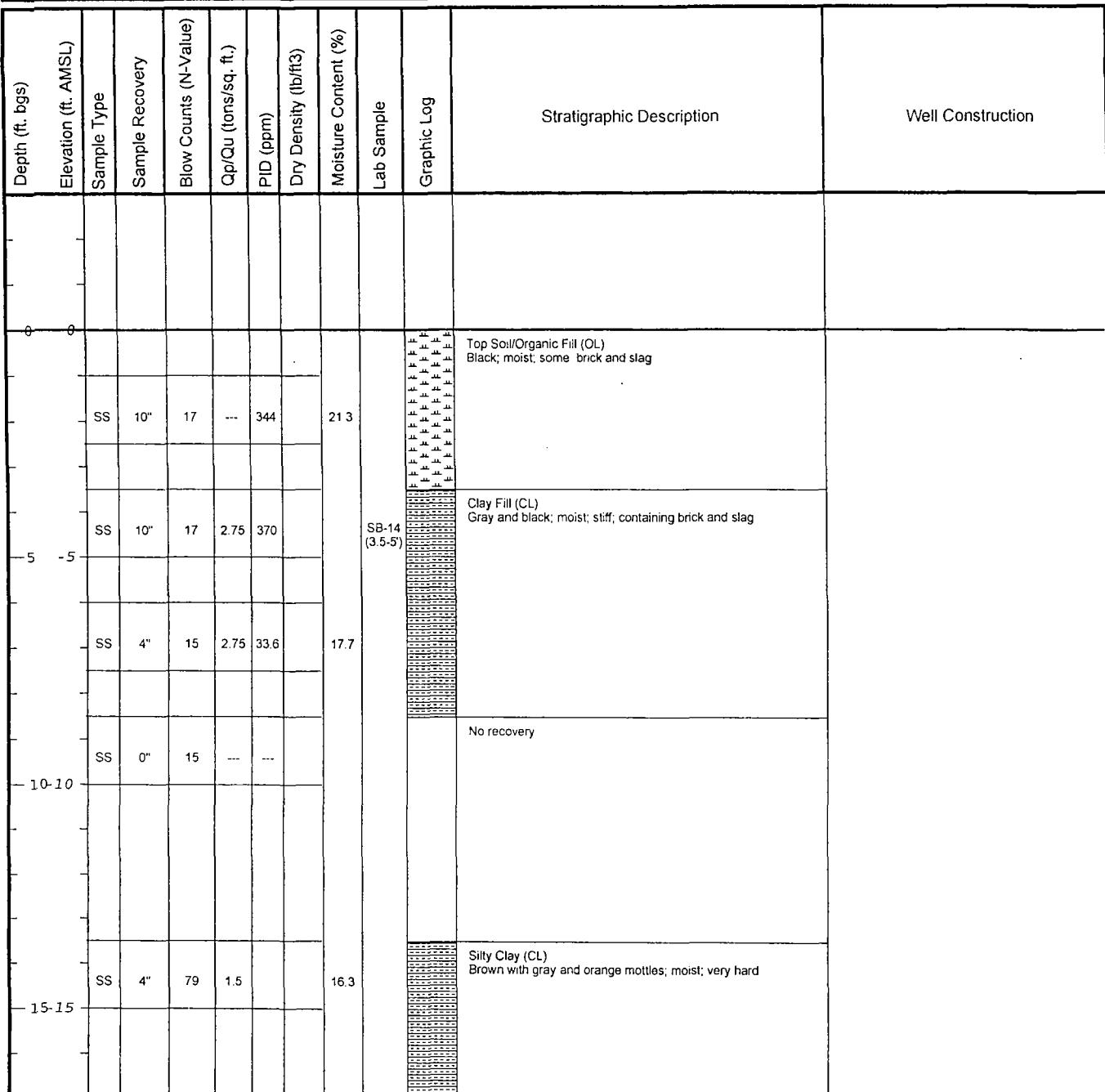
Borehole Depth: 30' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Stratigraphic Description |                       |                      |           |                                   |                      | Well Construction |             |  |
|-----------------|----------------------|---------------------------|-----------------------|----------------------|-----------|-----------------------------------|----------------------|-------------------|-------------|--|
|                 | Sample Type          | Sample Recovery           | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft <sup>3</sup> ) | Moisture Content (%) | Lab Sample        | Graphic Log |  |
| 20-20           | SS                   | 18"                       | 25                    | 4.5+                 |           | 114                               | 15.8                 |                   |             | Transitions to wet; not containing brick |
| 25-25           | SS                   | 18"                       | 32                    | 4.5+                 |           | 116                               | 17.3                 |                   |             |  |
| 30-30           | SS                   | 12"                       | 31                    | 4.5+                 |           | 110                               | 18.3                 |                   |             | Transitions to containing some gravel    |
| 35-35           |                      |                           |                       |                      |           |                                   |                      |                   |             |  |

## Remarks:



|   |   |  |
|---|---|--|
| Date Start/Finish: 5/17/12<br>Drilling Company: K&S Engineers<br>Driller's Name: Reuben Perez & Ed Deluca<br>Drilling Method: Hollow Stem Auger<br>Auger Size: 4"<br>Rig Type: Truck Mounted Rotary Drill Rig<br>Sampling Method: Split Spoon | First Encountered Water: 28.5' bgs<br>Stabilized Water: Cave-in @ 5' bgs<br>Casing Elevation: Not Surveyed<br>Borehole Depth: 30' bgs<br>Surface Elevation: Not Surveyed<br><br>Descriptions By: Scott Nellis | Well ID/Boring ID: SB-14<br><br>Client: Commonwealth Edison<br><br>Site Location: ComEd Crawford GS-13 |
|---|---|--|



**Remarks:** Recovery was very low on this boring and sometimes came in strips



Client: Commonwealth Edison

Well/Boring ID: SB-14

## Site Location:

ComEd Crawford GS-13

Borehole Depth: 30' bgs

| Depth (ft. bgs) | Elevation (ft. AMSL) | Stratigraphic Description |                 |                       |                      |           |                                   |                      |            |             |  | Well Construction |
|-----------------|----------------------|---------------------------|-----------------|-----------------------|----------------------|-----------|-----------------------------------|----------------------|------------|-------------|--|-------------------|
|                 |                      | Sample Type               | Sample Recovery | Blow Counts (N-Value) | Qp/Qu (tons/sq. ft.) | PID (ppm) | Dry Density (lb/ft <sup>3</sup> ) | Moisture Content (%) | Lab Sample | Graphic Log |  |                   |
| 20-20           | SS                   | 10"                       | 125             | —                     |                      |           |                                   | 23.1                 |            |             | Silt/Very Fine Sand (ML)<br>Gray; moist; very hard |                   |
| 25-25           | SS                   | 3"                        | 29              | —                     |                      |           |                                   | 15.5                 |            |             | Silty Clay (CL)<br>Gray; damp; very stiff          |                   |
| 30-30           | SS                   | 12"                       | 22              | 4.0                   |                      | 109       | 18.8                              |                      |            |             | Transitions to wet; containing trace gravel        |                   |
| 35-35           |                      |                           |                 |                       |                      |           |                                   |                      |            |             |  |                   |

Remarks: Recovery was very low on this boring and sometimes came in strips





## **Attachment 2**

Laboratory Analytical Report

# STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

May 22, 2012

ARCADIS U.S., Inc.

630 Tollgate Road

Suite D

Elgin, IL 60123

Telephone: (847) 695-8855

Fax: (847) 695-7799

RE: 127722.0000, ComEd-Crawford GS-13 Substation

STAT Project No: 12050508

Dear Dale Ellingson:

STAT Analysis received 2 samples for the referenced project on 5/17/2012 2:45:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis

Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

**Client:** ARCADIS U.S., Inc.  
**Project:** 127722.0000, ComEd-Crawford GS-13 Substation  
**Lab Order:** 12050508

**Work Order Sample Summary**

| Lab Sample ID | Client Sample ID | Tag Number | Collection Date      | Date Received |
|---------------|------------------|------------|----------------------|---------------|
| 12050508-001A | SB-12 (3.5-5')   |            | 5/17/2012 9:50:00 AM | 5/17/2012     |
| 12050508-002A | SB-14 (3.5-5')   |            | 5/17/2012 1:15:00 PM | 5/17/2012     |

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**CLIENT:** ARCADIS U.S., Inc.  
**Project:** 127722.0000, ComEd-Crawford GS-13 Substati  
**Lab Order:** 12050508

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**CASE NARRATIVE**

Samples SB-12 (3.5-5') (12050508-001) and SB-14 (3.5-5') (12050508-002) were formerly assigned STAT Sample IDs (12050486-007B) and ( 12050486-009B).

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 22, 2012

Print Date: May 22, 2012

|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-12 (3.5-5')       |
| <b>Lab Order:</b> | 12050508                                     | <b>Tag Number:</b>       |                      |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Collection Date:</b>  | 5/17/2012 9:50:00 AM |
| <b>Lab ID:</b>    | 12050508-001A                                | <b>Matrix:</b>           | Soil                 |

| Analyses                                       | Result | RL    | Qualifier | Units     | DF | Date Analyzed |
|--|--------|-------|-----------|-----------|----|---------------|
| <b>Semivolatile Organic Compounds by GC/MS</b> |        |       |           |           |    |               |
| Acenaphthene                                   | 0.14   | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Acenaphthylene                                 | 0.31   | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Aniline  | ND     | 0.39  |           | mg/Kg-dry | 1  | 5/19/2012     |
| Anthracene                                     | 0.49   | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benz(a)anthracene                              | 1.2    | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzidine                                      | ND     | 0.39  |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzo(a)pyrene                                 | 1.1    | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzo(b)fluoranthene                           | 1      | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzo(g,h,i)perylene                           | 0.98   | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzo(k)fluoranthene                           | 0.9    | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzoic acid                                   | ND     | 0.98  |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzyl alcohol                                 | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Bis(2-chloroethoxy)methane                     | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Bis(2-chloroethyl)ether                        | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Bis(2-ethylhexyl)phthalate                     | ND     | 0.98  |           | mg/Kg-dry | 1  | 5/19/2012     |
| 4-Bromophenyl phenyl ether                     | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Butyl benzyl phthalate                         | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Carbazole                                      | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 4-Chloroaniline                                | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 4-Chloro-3-methylphenol                        | ND     | 0.39  |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2-Chloronaphthalene                            | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2-Chlorophenol                                 | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 4-Chlorophenyl phenyl ether                    | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Chrysene                                       | 1.2    | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Dibenz(a,h)anthracene                          | 0.35   | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Dibenzofuran                                   | 0.22   | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 1,2-Dichlorobenzene                            | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 1,3-Dichlorobenzene                            | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 1,4-Dichlorobenzene                            | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 3,3'-Dichlorobenzidine                         | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2,4-Dichlorophenol                             | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Diethyl phthalate                              | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2,4-Dimethylphenol                             | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Dimethyl phthalate                             | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 4,6-Dinitro-2-methylphenol                     | ND     | 0.39  |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2,4-Dinitrophenol                              | ND     | 0.98  |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2,4-Dinitrotoluene                             | ND     | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2,6-Dinitrotoluene                             | ND     | 0.039 |           | mg/Kg-dry | 1  | 5/19/2012     |

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 22, 2012

Print Date: May 22, 2012

|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-12 (3.5-5')       |
| <b>Lab Order:</b> | 12050508                                     | <b>Tag Number:</b>       |                      |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Collection Date:</b>  | 5/17/2012 9:50:00 AM |
| <b>Lab ID:</b>    | 12050508-001A                                | <b>Matrix:</b>           | Soil                 |

| Analyses                                | Result            | RL    | Qualifier | Units      | DF        | Date Analyzed |
|---|-------------------|-------|-----------|------------|-----------|---------------|
| Semivolatile Organic Compounds by GC/MS | SW8270C (SW3550B) |       |           | Prep Date: | 5/17/2012 | Analyst: DM   |
| Di-n-butyl phthalate                    | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Di-n-octyl phthalate                    | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Fluoranthene                            | 2.5               | 0.039 |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Fluorene                                | 0.099             | 0.039 |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Hexachlorobenzene                       | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Hexachlorobutadiene                     | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Hexachlorocyclopentadiene               | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Hexachloroethane                        | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Indeno(1,2,3-cd)pyrene                  | 0.74              | 0.039 |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Isophorone                              | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 2-Methylnaphthalene                     | 0.28              | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 2-Methylphenol                          | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 4-Methylphenol                          | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Naphthalene                             | 0.13              | 0.039 |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 2-Nitroaniline                          | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 3-Nitroaniline                          | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 4-Nitroaniline                          | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 2-Nitrophenol                           | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 4-Nitrophenol                           | ND                | 0.39  |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Nitrobenzene                            | ND                | 0.039 |           | mg/Kg-dry  | 1         | 5/19/2012     |
| N-Nitrosodi-n-propylamine               | ND                | 0.039 |           | mg/Kg-dry  | 1         | 5/19/2012     |
| N-Nitrosodimethylamine                  | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| N-Nitrosodiphenylamine                  | ND                | 0.039 |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 2, 2'-oxybis(1-Chloropropane)           | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Pentachlorophenol                       | ND                | 0.039 |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Phenanthrene                            | 2                 | 0.039 |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Phenol                                  | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Pyrene                                  | 2.1               | 0.039 |           | mg/Kg-dry  | 1         | 5/19/2012     |
| Pyridine                                | ND                | 0.79  |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 1,2,4-Trichlorobenzene                  | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 2,4,5-Trichlorophenol                   | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| 2,4,6-Trichlorophenol                   | ND                | 0.2   |           | mg/Kg-dry  | 1         | 5/19/2012     |
| <b>Percent Moisture</b>                 | <b>D2974</b>      |       |           | Prep Date: | 5/17/2012 | Analyst: RW   |
| Percent Moisture                        | 16.3              | 0.2   | *         | wt%        | 1         | 5/18/2012     |

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit<br>J - Analyte detected below quantitation limits<br>B - Analyte detected in the associated Method Blank<br>HT - Sample received past holding time<br>* - Non-accredited parameter | RL - Reporting / Quantitation Limit for the analysis<br>S - Spike Recovery outside accepted recovery limits<br>R - RPD outside accepted recovery limits<br>E - Value above quantitation range<br>H - Holding time exceeded |
|--------------------|---|--|

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 22, 2012

Print Date: May 22, 2012

|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-14 (3.5-5')       |
| <b>Lab Order:</b> | 12050508                                     | <b>Tag Number:</b>       |                      |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Collection Date:</b>  | 5/17/2012 1:15:00 PM |
| <b>Lab ID:</b>    | 12050508-002A                                | <b>Matrix:</b>           | Soil                 |

| Analyses                                       | Result | RL    | Qualifier | Units     | DF | Date Analyzed |
|--|--------|-------|-----------|-----------|----|---------------|
| <b>Semivolatile Organic Compounds by GC/MS</b> |        |       |           |           |    |               |
| Acenaphthene                                   | 0.49   | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Acenaphthylene                                 | 0.95   | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Aniline  | ND     | 0.39  |           | mg/Kg-dry | 1  | 5/19/2012     |
| Anthracene                                     | 1.3    | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benz(a)anthracene                              | 1.8    | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzidine                                      | ND     | 0.38  |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzo(a)pyrene                                 | 2.7    | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzo(b)fluoranthene                           | 2.3    | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzo(g,h,i)perylene                           | 3      | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzo(k)fluoranthene                           | 1.4    | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzoic acid                                   | ND     | 0.96  |           | mg/Kg-dry | 1  | 5/19/2012     |
| Benzyl alcohol                                 | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Bis(2-chloroethoxy)methane                     | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Bis(2-chloroethyl)ether                        | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Bis(2-ethylhexyl)phthalate                     | 1.6    | 0.96  |           | mg/Kg-dry | 1  | 5/19/2012     |
| 4-Bromophenyl phenyl ether                     | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Butyl benzyl phthalate                         | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Carbazole                                      | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 4-Chloroaniline                                | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 4-Chloro-3-methylphenol                        | ND     | 0.38  |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2-Chloronaphthalene                            | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2-Chlorophenol                                 | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 4-Chlorophenyl phenyl ether                    | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Chrysene                                       | 2.1    | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Dibenz(a,h)anthracene                          | 0.98   | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |
| Dibenzofuran                                   | 0.57   | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 1,2-Dichlorobenzene                            | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 1,3-Dichlorobenzene                            | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 1,4-Dichlorobenzene                            | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 3,3'-Dichlorobenzidine                         | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2,4-Dichlorophenol                             | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Diethyl phthalate                              | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2,4-Dimethylphenol                             | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| Dimethyl phthalate                             | ND     | 0.2   |           | mg/Kg-dry | 1  | 5/19/2012     |
| 4,6-Dinitro-2-methylphenol                     | ND     | 0.38  |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2,4-Dinitrophenol                              | ND     | 0.96  |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2,4-Dinitrotoluene                             | ND     | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |
| 2,6-Dinitrotoluene                             | ND     | 0.038 |           | mg/Kg-dry | 1  | 5/19/2012     |

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit<br>J - Analyte detected below quantitation limits<br>B - Analyte detected in the associated Method Blank<br>HT - Sample received past holding time<br>* - Non-accredited parameter | RL - Reporting / Quantitation Limit for the analysis<br>S - Spike Recovery outside accepted recovery limits<br>R - RPD outside accepted recovery limits<br>E - Value above quantitation range<br>H - Holding time exceeded |
|--------------------|---|--|

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 22, 2012

Print Date: May 22, 2012

| <b>Client:</b>                          | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> SB-14 (3.5-5')      |           |                      |    |               |
|---|--|--|-----------|----------------------|----|---------------|
| <b>Lab Order:</b>                       | 12050508                                     | <b>Tag Number:</b>                           |           |                      |    |               |
| <b>Project:</b>                         | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Collection Date:</b> 5/17/2012 1:15:00 PM |           |                      |    |               |
| <b>Lab ID:</b>                          | 12050508-002A                                | <b>Matrix:</b> Soil                          |           |                      |    |               |
| Analyses                                | Result                                       | RL   | Qualifier | Units                | DF | Date Analyzed |
| Semivolatile Organic Compounds by GC/MS | SW8270C (SW3550B)                            |  |           | Prep Date: 5/17/2012 |    | Analyst: DM   |
| Di-n-butyl phthalate                    | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Di-n-octyl phthalate                    | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Fluoranthene                            | 4.1  | 0.038  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Fluorene                                | 0.43   | 0.038  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Hexachlorobenzene                       | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Hexachlorobutadiene                     | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Hexachlorocyclopentadiene               | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Hexachloroethane                        | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Indeno(1,2,3-cd)pyrene                  | 2.2  | 0.038  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Isophorone                              | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 2-Methylnaphthalene                     | 0.5  | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 2-Methylphenol                          | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 4-Methylphenol                          | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Naphthalene                             | 0.27   | 0.038  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 2-Nitroaniline                          | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 3-Nitroaniline                          | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 4-Nitroaniline                          | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 2-Nitrophenol                           | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 4-Nitrophenol                           | ND   | 0.38   |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Nitrobenzene                            | ND   | 0.038  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| N-Nitrosodi-n-propylamine               | ND   | 0.038  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| N-Nitrosodimethylamine                  | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| N-Nitrosodiphenylamine                  | ND   | 0.038  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 2, 2'-oxybis(1-Chloropropane)           | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Pentachlorophenol                       | ND   | 0.038  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Phenanthrene                            | 3.1  | 0.038  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Phenol                                  | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Pyrene                                  | 3.2  | 0.038  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| Pyridine                                | ND   | 0.78   |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 1,2,4-Trichlorobenzene                  | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 2,4,5-Trichlorophenol                   | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| 2,4,6-Trichlorophenol                   | ND   | 0.2  |           | mg/Kg-dry            | 1  | 5/19/2012     |
| <b>Percent Moisture</b>                 | D2974  |  |           | Prep Date: 5/17/2012 |    | Analyst: RW   |
| Percent Moisture                        | 14.8   | 0.2  | *         | wt%                  | 1  | 5/18/2012     |

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit            | RL - Reporting / Quantitation Limit for the analysis |
|                    | J - Analyte detected below quantitation limits      | S - Spike Recovery outside accepted recovery limits  |
|                    | B - Analyte detected in the associated Method Blank | R - RPD outside accepted recovery limits             |
|                    | HT - Sample received past holding time              | E - Value above quantitation range                   |
|                    | * - Non-accredited parameter                        | H - Holding time exceeded                            |

## CHAIN OF CUSTODY RECORD

| Company: <b>ARCADIS</b>                                       |                   | P.O. No.:   |            |   |      |           |                   |                      |                   |                   |   |                 |                                     |   |  |                             |          |
|---|-------------------|---|------------|---|------|-----------|-------------------|----------------------|-------------------|-------------------|---|-----------------|-------------------------------------|---|--|-----------------------------|----------|
| Project Number: <b>12722.0000</b>                             |                   | Client Tracking No.:  |            |   |      |           |                   |                      |                   |                   |   |                 |                                     |   |  |                             |          |
| Project Name: <b>COMED-CRAWFORD 65-13 SUBSTATION</b>          |                   | Quote No.:  |            |   |      |           |                   |                      |                   |                   |   |                 |                                     |   |  |                             |          |
| Project Location: <b>3501 SOUTH PULASKI ROAD, CHICAGO, IL</b> |                   |   |            |   |      |           |                   |                      |                   |                   |   |                 |                                     |   |  |                             |          |
| Sampler(s): <b>DYLAN RAES</b>                                 |                   |   |            |   |      |           |                   |                      |                   |                   |   |                 |                                     |   |  |                             |          |
| Report To: <b>DALE ELLINGSON</b><br><b>Amy SCHWARZ</b>        |                   | Phone: <b>dale.ellingsen@arcadis-us.com</b><br>Fax: <b>amy.schwarz@arcadis-us.com</b> |            |   |      |           |                   |                      |                   |                   |   |                 |                                     |   |  |                             |          |
| QC Level: 1    2    3    4                                    |                   | e-mail:   |            |   |      |           |                   |                      |                   |                   |   |                 |                                     |   |  |                             |          |
| Client Sample Number/Description:                             | Date Taken        | Time Taken  | Matrix     | Comp.   | Grab | Preserv.  | No. of Containers | Turn Around<br>4 DAY |                   |                   |   |                 |                                     |   |  | Remarks                     | Lab No.: |
|   |                   |   |            |   |      |           |                   | VOC <sup>b</sup>     | PNAS <sup>b</sup> | DUVA <sup>b</sup> | TOTAL AND TCLP RUST METALS <sup>b</sup> | PH <sup>b</sup> | WATER SOLUBLE SULFATES <sup>b</sup> | 1 | 1  |                             |          |
| SB-1 (3.5-5')   | 5/14/12           | 1227  | S          | X   |      |           | 4                 | X                    | X                 | X                 | X                                       | X               | X                                   |   |  | 001                         |          |
| SB-5 (3.5-5')   | 5/14/12           | 1555  | S          | X   |      |           | 4                 | X                    | X                 | X                 | X                                       | X               | X                                   |   |  | 002                         |          |
| SB-10 (1-2.5')  | 5/15/12           | 0955  | S          | X   |      |           | 4                 | X                    | X                 | X                 | X                                       | X               | X                                   |   |  | 003                         |          |
| SB-8 (8.5-10')  | 5/15/12           | 1538  | S          | X   |      |           | 4                 | X                    | X                 | X                 | X                                       | X               | X                                   |   |  | 004                         |          |
| SB-9 (6-7.5')   | 5/16/12           | 0915  | S          | X   |      |           | 4                 | X                    | X                 | X                 | X                                       | X               | X                                   |   |  | 005                         |          |
| SB-11 (1-2.5')  | 5/17/12           | 0845  | I          |   | I    |           | 1                 | I                    | I                 | I                 | I                                       | I               | I                                   |   |  | 006                         |          |
| SB-12 (3.5-5')  |                   | 0950  |            |   |      |           |                   | I                    | I                 | I                 | I                                       | I               | I                                   |   |  | 007                         |          |
| SB-13 (3.5-5')  |                   | 1110  |            |   |      |           |                   | I                    | I                 | I                 | I                                       | I               | I                                   |   |  | 008                         |          |
| SB-14 (3.5-5')  | ↓                 | 1315  | ↓          | ↓   | ↓    | ↓         | ↓                 | ↓                    | ↓                 | ↓                 | ↓                                       | ↓               | ↓                                   |   |  | 009                         |          |
| Relinquished by: (Signature)                                  | <i>Dylan Raes</i> |   | Date/Time: | 5/16/12 1555  |      | Comments: | 12050508          |                      |                   |                   |   |                 |                                     |   | Laboratory Work Order No.:                               | 12050486                    |          |
| Received by: (Signature)                                      | <i>SES</i>        |   | Date/Time: | 5/16/12 1555  |      |           |                   |                      |                   |                   |   |                 |                                     |   | Received on Ice: Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |          |
| Relinquished by: (Signature)                                  | <i>SES</i>        |   | Date/Time: | 5/17/12 1445  |      |           |                   |                      |                   |                   |   |                 |                                     |   | Temperature: 33 °C                                       |                             |          |
| Received by: (Signature)                                      | <i>SES</i>        |   | Date/Time: | 5/17/12 1445  |      |           |                   |                      |                   |                   |   |                 |                                     |   |  |                             |          |
| Relinquished by: (Signature)                                  |                   |   | Date/Time: | Preservation Code: A = None   B = HNO <sub>3</sub> C = NaOH                           |      |           |                   |                      |                   |                   |   |                 |                                     |   |  |                             |          |
| Received by: (Signature)                                      |                   |   | Date/Time: | D = H <sub>2</sub> SO <sub>4</sub> E = HCl   F = SO <sub>3</sub> S/EnCorc   G = Other |      |           |                   |                      |                   |                   |   |                 |                                     |   |  |                             |          |

# STAT Analysis Corporation

## Sample Receipt Checklist

Client Name **LFR**Date and Time Received: **5/17/2012 2:45:00 PM**Work Order Number **12050508**Received by: **MAM**

Checklist completed by:

Signature

Date

Reviewed by:

Initials

Date

Matrix:

Carrier name **Client Delivered**

|   |  |   |   |
|---|--|---|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>             | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>             | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>             |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>             |   |
| Chain of custody agrees with sample labels/containers?  | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>             |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>             |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>             |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>             |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>             |   |
| Container or Temp Blank temperature in compliance?      | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>             | Temperature <b>3.3 °C</b>                       |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input checked="" type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input checked="" type="checkbox"/>          |
| Water - Samples pH checked?                             | Yes <input checked="" type="checkbox"/>                    | No <input checked="" type="checkbox"/>  | Checked by: _____                               |
| Water - Samples properly preserved?                     | Yes <input checked="" type="checkbox"/>                    | No <input checked="" type="checkbox"/>  | pH Adjusted? _____                              |

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_

Client / Person contacted: **Scott**Date contacted: **5/18/12**Contacted by: **CG**Response: **Analyze samples SB-12 (35.5') and SB-14 (3.5-5') for SVOC. Samples submitted under STAT WO 12050486.**

# **STAT** Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

May 30, 2012

ARCADIS U.S., Inc.

630 Tollgate Road

Suite D

Elgin, IL 60123

Telephone: (847) 695-8855

Fax: (847) 695-7799

RE: 127722.0000, ComEd-Crawford GS-13 Substation

STAT Project No: 12050486

Dear Dale Ellingson:

STAT Analysis received 9 samples for the referenced project on 5/17/2012 2:45:00 PM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis

Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

**Client:** ARCADIS U.S., Inc.  
**Project:** 127722.0000, ComEd-Crawford GS-13 Substation  
**Lab Order:** 12050486

**Work Order Sample Summary**

| Lab Sample ID | Client Sample ID | Tag Number | Collection Date       | Date Received |
|---------------|------------------|------------|-----------------------|---------------|
| 12050486-001A | SB-1 (3.5-5')    |            | 5/14/2012 12:27:00 PM | 5/17/2012     |
| 12050486-001B | SB-1 (3.5-5')    |            | 5/14/2012 12:27:00 PM | 5/17/2012     |
| 12050486-002A | SB-5 (3.5-5')    |            | 5/14/2012 3:55:00 PM  | 5/17/2012     |
| 12050486-002B | SB-5 (3.5-5')    |            | 5/14/2012 3:55:00 PM  | 5/17/2012     |
| 12050486-003A | SB-10 (1-2.5')   |            | 5/15/2012 9:55:00 AM  | 5/17/2012     |
| 12050486-003B | SB-10 (1-2.5')   |            | 5/15/2012 9:55:00 AM  | 5/17/2012     |
| 12050486-004A | SB-8 (8.5-10')   |            | 5/15/2012 3:38:00 PM  | 5/17/2012     |
| 12050486-004B | SB-8 (8.5-10')   |            | 5/15/2012 3:38:00 PM  | 5/17/2012     |
| 12050486-005A | SB-9 (6-7.5')    |            | 5/16/2012 9:15:00 AM  | 5/17/2012     |
| 12050486-005B | SB-9 (6-7.5')    |            | 5/16/2012 9:15:00 AM  | 5/17/2012     |
| 12050486-006A | SB-11 (1-2.5')   |            | 5/17/2012 8:45:00 AM  | 5/17/2012     |
| 12050486-006B | SB-11 (1-2.5')   |            | 5/17/2012 8:45:00 AM  | 5/17/2012     |
| 12050486-007A | SB-12 (3.5-5')   |            | 5/17/2012 9:50:00 AM  | 5/17/2012     |
| 12050486-007B | SB-12 (3.5-5')   |            | 5/17/2012 9:50:00 AM  | 5/17/2012     |
| 12050486-008A | SB-13 (3.5-5')   |            | 5/17/2012 11:10:00 AM | 5/17/2012     |
| 12050486-008B | SB-13 (3.5-5')   |            | 5/17/2012 11:10:00 AM | 5/17/2012     |
| 12050486-009A | SB-14 (3.5-5')   |            | 5/17/2012 1:15:00 PM  | 5/17/2012     |
| 12050486-009B | SB-14 (3.5-5')   |            | 5/17/2012 1:15:00 PM  | 5/17/2012     |

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**CLIENT:** ARCADIS U.S., Inc.  
**Project:** 127722.0000, ComEd-Crawford GS-13 Substati  
**Lab Order:** 12050486

**CASE NARRATIVE**

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The fractional mercury Matrix Spike/Matrix Spike Duplicate (MS/MSD) prepared from sample SB-12 (3.5-5') (12050486-007) had recovery outside control limits (10%/12% (MS/MSD) recovery, QC limits 75-125%).

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Date Reported: May 30, 2012

Date Printed: May 30, 2012

|                   |  |                          |                       |
|-------------------|--|--------------------------|-----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-1 (3.5-5')         |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/14/2012 12:27:00 PM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                  |
| <b>Lab ID:</b>    | 12050486-001                                 |                          |                       |

| Analyses                                       | Result                       | RL     | Qualifier | Units     | DF | Date Analyzed |
|--|------------------------------|--------|-----------|-----------|----|---------------|
| <b>PCBs</b>                                    | <b>SW8082 (SW3550B)</b>      |        |           |           |    |               |
| Aroclor 1016                                   | ND                           | 0.1    |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1221                                   | ND                           | 0.1    |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1232                                   | ND                           | 0.1    |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1242                                   | ND                           | 0.1    |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1248                                   | ND                           | 0.1    |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1254                                   | ND                           | 0.1    |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1260                                   | ND                           | 0.1    |           | mg/Kg-dry | 1  | 5/18/2012     |
| <b>TCLP Mercury</b>                            | <b>SW1311/7470A</b>          |        |           |           |    |               |
| Mercury  | ND                           | 0.0002 |           | mg/L      | 1  | 5/22/2012     |
| <b>Mercury</b>                                 | <b>SW7471A</b>               |        |           |           |    |               |
| Mercury  | 0.066                        | 0.02   |           | mg/Kg-dry | 1  | 5/21/2012     |
| <b>Metals by ICP/MS</b>                        | <b>SW6020 (SW3050B)</b>      |        |           |           |    |               |
| Arsenic  | 11                           | 1.3    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Barium   | 88                           | 1.3    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Cadmium  | ND                           | 0.64   |           | mg/Kg-dry | 10 | 5/21/2012     |
| Chromium                                       | 22                           | 1.3    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Lead   | 110                          | 0.64   |           | mg/Kg-dry | 10 | 5/21/2012     |
| Selenium                                       | ND                           | 1.3    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Silver   | ND                           | 1.3    |           | mg/Kg-dry | 10 | 5/21/2012     |
| <b>TCLP Metals by ICP/MS</b>                   | <b>SW1311/6020 (SW3005A)</b> |        |           |           |    |               |
| Arsenic  | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Barium   | ND                           | 0.5    |           | mg/L      | 5  | 5/21/2012     |
| Cadmium  | ND                           | 0.005  |           | mg/L      | 5  | 5/21/2012     |
| Chromium                                       | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Lead   | 0.013                        | 0.005  |           | mg/L      | 5  | 5/21/2012     |
| Selenium                                       | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Silver   | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| <b>Semivolatile Organic Compounds by GC/MS</b> | <b>SW8270C (SW3550B)</b>     |        |           |           |    |               |
| Acenaphthene                                   | ND                           | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Acenaphthylene                                 | ND                           | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Anthracene                                     | ND                           | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benz(a)anthracene                              | 0.083                        | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(a)pyrene                                 | 0.081                        | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(b)fluoranthene                           | 0.085                        | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(g,h,i)perylene                           | 0.055                        | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(k)fluoranthene                           | ND                           | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: May 30, 2012

Date Printed: May 30, 2012

|                   |  |                          |                       |
|-------------------|--|--------------------------|-----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-1 (3.5-5')         |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/14/2012 12:27:00 PM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                  |
| <b>Lab ID:</b>    | 12050486-001                                 |                          |                       |

| Analyses                                | Result            | RL     | Qualifier | Units                | DF | Date Analyzed |
|---|-------------------|--------|-----------|----------------------|----|---------------|
| Semivolatile Organic Compounds by GC/MS | SW8270C (SW3550B) |        |           | Prep Date: 5/17/2012 |    | Analyst: DM   |
| Chrysene                                | 0.092             | 0.041  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Dibenz(a,h)anthracene                   | ND                | 0.041  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Fluoranthene                            | 0.16              | 0.041  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Fluorene                                | ND                | 0.041  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Indeno(1,2,3-cd)pyrene                  | 0.048             | 0.041  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Naphthalene                             | ND                | 0.041  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Phenanthrene                            | 0.079             | 0.041  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Pyrene                                  | 0.15              | 0.041  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Volatile Organic Compounds by GC/MS     | SW5035/8260B      |        |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Acetone                                 | ND                | 0.11   |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Benzene                                 | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromodichloromethane                    | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromoform                               | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromomethane                            | ND                | 0.015  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 2-Butanone                              | ND                | 0.11   |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Carbon disulfide                        | ND                | 0.076  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Carbon tetrachloride                    | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chlorobenzene                           | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloroethane                            | ND                | 0.015  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloroform                              | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloromethane                           | ND                | 0.015  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Dibromochloromethane                    | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1-Dichloroethane                      | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,2-Dichloroethane                      | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1-Dichloroethene                      | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| cis-1,2-Dichloroethene                  | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| trans-1,2-Dichloroethene                | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,2-Dichloropropane                     | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| cis-1,3-Dichloropropene                 | ND                | 0.003  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| trans-1,3-Dichloropropene               | ND                | 0.003  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Ethylbenzene                            | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 2-Hexanone                              | ND                | 0.03   |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 4-Methyl-2-pentanone                    | ND                | 0.03   |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Methylene chloride                      | ND                | 0.015  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Methyl tert-butyl ether                 | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Styrene                                 | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2,2-Tetrachloroethane               | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Tetrachloroethene                       | ND                | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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HT - Sample received past holding time

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\* - Non-accredited parameter

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Date Reported: May 30, 2012

Date Printed: May 30, 2012

|                   |  |                          |                       |
|-------------------|--|--------------------------|-----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-1 (3.5-5')         |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/14/2012 12:27:00 PM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                  |
| <b>Lab ID:</b>    | 12050486-001                                 |                          |                       |

| Analyses                            | Result       | RL     | Qualifier | Units                | DF | Date Analyzed |
|-------------------------------------|--------------|--------|-----------|----------------------|----|---------------|
| Volatile Organic Compounds by GC/MS | SW5035/8260B |        |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Toluene                             | ND           | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,1-Trichloroethane               | ND           | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2-Trichloroethane               | ND           | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Trichloroethene                     | ND           | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Vinyl chloride                      | ND           | 0.0076 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Xylenes, Total                      | ND           | 0.023  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| pH (25 °C)                          | SW9045C      |        |           | Prep Date: 5/17/2012 |    | Analyst: PBG  |
| pH                                  | 7.6          |        |           | pH Units             | 1  | 5/17/2012     |
| Percent Moisture                    | D2974        |        |           | Prep Date: 5/17/2012 |    | Analyst: RW   |
| Percent Moisture                    | 20.8         | 0.2    | *         | wt%                  | 1  | 5/18/2012     |
| Sulfate in Soil                     | M4500SO4,E   |        |           | Prep Date: 5/22/2012 |    | Analyst: YZ   |
| Sulfate                             | 2690         | 630    | *         | mg/Kg-dry            | 10 | 5/22/2012     |

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit<br>J - Analyte detected below quantitation limits<br>B - Analyte detected in the associated Method Blank<br>HT - Sample received past holding time<br>* - Non-accredited parameter | RL - Reporting / Quantitation Limit for the analysis<br>S - Spike Recovery outside accepted recovery limits<br>R - RPD outside accepted recovery limits<br>E - Value above quantitation range<br>H - Holding time exceeded |
|--------------------|---|--|

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Date Reported: May 30, 2012

Date Printed: May 30, 2012

| <b>Client:</b>                                 | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> SB-5 (3.5-5')       |           |           |                      |               |
|--|--|--|-----------|-----------|----------------------|---------------|
| <b>Lab Order:</b>                              | 12050486                                     | <b>Collection Date:</b> 5/14/2012 3:55:00 PM |           |           |                      |               |
| <b>Project:</b>                                | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b> Soil                          |           |           |                      |               |
| <b>Lab ID:</b>                                 | 12050486-002                                 |  |           |           |                      |               |
| Analyses                                       | Result                                       | RL   | Qualifier | Units     | DF                   | Date Analyzed |
| <b>PCBs</b>                                    | <b>SW8082 (SW3550B)</b>                      |  |           |           | Prep Date: 5/17/2012 | Analyst: GVC  |
| Aroclor 1016                                   | ND   | 0.093  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Aroclor 1221                                   | ND   | 0.093  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Aroclor 1232                                   | ND   | 0.093  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Aroclor 1242                                   | ND   | 0.093  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Aroclor 1248                                   | ND   | 0.093  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Aroclor 1254                                   | ND   | 0.093  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Aroclor 1260                                   | ND   | 0.093  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| <b>TCLP Mercury</b>                            | <b>SW1311/7470A</b>                          |  |           |           | Prep Date: 5/21/2012 | Analyst: LB   |
| Mercury  | ND   | 0.0002                                       |           | mg/L      | 1                    | 5/22/2012     |
| <b>Mercury</b>                                 | <b>SW7471A</b>                               |  |           |           | Prep Date: 5/21/2012 | Analyst: LB   |
| Mercury  | 0.037  | 0.023  |           | mg/Kg-dry | 1                    | 5/21/2012     |
| <b>Metals by ICP/MS</b>                        | <b>SW6020 (SW3050B)</b>                      |  |           |           | Prep Date: 5/21/2012 | Analyst: JG   |
| Arsenic  | 13   | 1.2  |           | mg/Kg-dry | 10                   | 5/21/2012     |
| Barium   | 32   | 1.2  |           | mg/Kg-dry | 10                   | 5/21/2012     |
| Cadmium  | ND   | 0.59   |           | mg/Kg-dry | 10                   | 5/21/2012     |
| Chromium                                       | 14   | 1.2  |           | mg/Kg-dry | 10                   | 5/21/2012     |
| Lead   | 31   | 0.59   |           | mg/Kg-dry | 10                   | 5/21/2012     |
| Selenium                                       | ND   | 1.2  |           | mg/Kg-dry | 10                   | 5/21/2012     |
| Silver   | ND   | 1.2  |           | mg/Kg-dry | 10                   | 5/21/2012     |
| <b>TCLP Metals by ICP/MS</b>                   | <b>SW1311/6020 (SW3005A)</b>                 |  |           |           | Prep Date: 5/21/2012 | Analyst: JG   |
| Arsenic  | ND   | 0.01   |           | mg/L      | 5                    | 5/21/2012     |
| Barium   | ND   | 0.5  |           | mg/L      | 5                    | 5/21/2012     |
| Cadmium  | ND   | 0.005  |           | mg/L      | 5                    | 5/21/2012     |
| Chromium                                       | ND   | 0.01   |           | mg/L      | 5                    | 5/21/2012     |
| Lead   | 0.0085                                       | 0.005  |           | mg/L      | 5                    | 5/21/2012     |
| Selenium                                       | ND   | 0.01   |           | mg/L      | 5                    | 5/21/2012     |
| Silver   | ND   | 0.01   |           | mg/L      | 5                    | 5/21/2012     |
| <b>Semivolatile Organic Compounds by GC/MS</b> | <b>SW8270C (SW3550B)</b>                     |  |           |           | Prep Date: 5/17/2012 | Analyst: DM   |
| Acenaphthene                                   | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Acenaphthylene                                 | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Anthracene                                     | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Benz(a)anthracene                              | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Benzo(a)pyrene                                 | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Benzo(b)fluoranthene                           | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Benzo(g,h,i)perylene                           | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Benzo(k)fluoranthene                           | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quantitation limits

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: May 30, 2012

Date Printed: May 30, 2012

| <b>Client:</b>                                 | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> SB-5 (3.5-5')       |           |           |                      |               |
|--|--|--|-----------|-----------|----------------------|---------------|
| <b>Lab Order:</b>                              | 12050486                                     | <b>Collection Date:</b> 5/14/2012 3:55:00 PM |           |           |                      |               |
| <b>Project:</b>                                | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b> Soil                          |           |           |                      |               |
| <b>Lab ID:</b>                                 | 12050486-002                                 |  |           |           |                      |               |
| Analyses                                       | Result                                       | RL   | Qualifier | Units     | DF                   | Date Analyzed |
| <b>Semivolatile Organic Compounds by GC/MS</b> | <b>SW8270C (SW3550B)</b>                     |  |           |           | Prep Date: 5/17/2012 | Analyst: DM   |
| Chrysene                                       | 0.043  | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Dibenz(a,h)anthracene                          | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Fluoranthene                                   | 0.069  | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Fluorene                                       | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Indeno(1,2,3-cd)pyrene                         | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Naphthalene                                    | ND   | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Phenanthrene                                   | 0.068  | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| Pyrene   | 0.056  | 0.039  |           | mg/Kg-dry | 1                    | 5/18/2012     |
| <b>Volatile Organic Compounds by GC/MS</b>     | <b>SW5035/8260B</b>                          |  |           |           | Prep Date: 5/17/2012 | Analyst: ERP  |
| Acetone  | ND   | 0.12   |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Benzene  | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Bromodichloromethane                           | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Bromoform                                      | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Bromomethane                                   | ND   | 0.016  |           | mg/Kg-dry | 1                    | 5/21/2012     |
| 2-Butanone                                     | ND   | 0.12   |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Carbon disulfide                               | ND   | 0.078  |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Carbon tetrachloride                           | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Chlorobenzene                                  | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Chloroethane                                   | ND   | 0.016  |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Chloroform                                     | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Chloromethane                                  | ND   | 0.016  |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Dibromochloromethane                           | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| 1,1-Dichloroethane                             | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| 1,2-Dichloroethane                             | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| 1,1-Dichloroethene                             | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| cis-1,2-Dichloroethene                         | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| trans-1,2-Dichloroethene                       | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| 1,2-Dichloropropane                            | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| cis-1,3-Dichloropropene                        | ND   | 0.0031                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| trans-1,3-Dichloropropene                      | ND   | 0.0031                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Ethylbenzene                                   | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| 2-Hexanone                                     | ND   | 0.031  |           | mg/Kg-dry | 1                    | 5/21/2012     |
| 4-Methyl-2-pentanone                           | ND   | 0.031  |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Methylene chloride                             | ND   | 0.016  |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Methyl tert-butyl ether                        | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Styrene  | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| 1,1,2,2-Tetrachloroethane                      | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |
| Tetrachloroethene                              | ND   | 0.0078                                       |           | mg/Kg-dry | 1                    | 5/21/2012     |

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: May 30, 2012

Date Printed: May 30, 2012

**Client:** ARCADIS U.S., Inc.      **Client Sample ID:** SB-5 (3.5-5')  
**Lab Order:** 12050486      **Collection Date:** 5/14/2012 3:55:00 PM  
**Project:** 127722.0000, ComEd-Crawford GS-13 Substation      **Matrix:** Soil  
**Lab ID:** 12050486-002

| Analyses                            | Result       | RL     | Qualifier | Units                | DF | Date Analyzed |
|-------------------------------------|--------------|--------|-----------|----------------------|----|---------------|
| Volatile Organic Compounds by GC/MS | SW5035/8260B |        |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Toluene                             | ND           | 0.0078 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,1-Trichloroethane               | ND           | 0.0078 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2-Trichloroethane               | ND           | 0.0078 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Trichloroethene                     | ND           | 0.0078 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Vinyl chloride                      | ND           | 0.0078 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Xylenes, Total                      | ND           | 0.023  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| pH (25 °C)                          | SW9045C      |        |           | Prep Date: 5/17/2012 |    | Analyst: PBG  |
| pH                                  | 7.5          |        |           | pH Units             | 1  | 5/17/2012     |
| Percent Moisture                    | D2974        |        |           | Prep Date: 5/17/2012 |    | Analyst: RW   |
| Percent Moisture                    | 16.0         | 0.2    | *         | wt%                  | 1  | 5/18/2012     |
| Sulfate in Soil                     | M4500SO4,E   |        |           | Prep Date: 5/22/2012 |    | Analyst: YZ   |
| Sulfate                             | 7670         | 3000   | *         | mg/Kg-dry            | 50 | 5/22/2012     |

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit            | RL - Reporting / Quantitation Limit for the analysis |
|                    | J - Analyte detected below quantitation limits      | S - Spike Recovery outside accepted recovery limits  |
|                    | B - Analyte detected in the associated Method Blank | R - RPD outside accepted recovery limits             |
|                    | HT - Sample received past holding time              | E - Value above quantitation range                   |
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Date Reported: May 30, 2012

Date Printed: May 30, 2012

|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-10 (1-2.5')       |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/15/2012 9:55:00 AM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                 |
| <b>Lab ID:</b>    | 12050486-003                                 |                          |                      |

| Analyses                                       | Result                       | RL     | Qualifier | Units     | DF | Date Analyzed |
|--|------------------------------|--------|-----------|-----------|----|---------------|
| <b>PCBs</b>                                    | <b>SW8082 (SW3550B)</b>      |        |           |           |    |               |
| Aroclor 1016                                   | ND                           | 0.098  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1221                                   | ND                           | 0.098  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1232                                   | ND                           | 0.098  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1242                                   | ND                           | 0.098  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1248                                   | ND                           | 0.098  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1254                                   | ND                           | 0.098  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1260                                   | ND                           | 0.098  |           | mg/Kg-dry | 1  | 5/18/2012     |
| <b>TCLP Mercury</b>                            | <b>SW1311/7470A</b>          |        |           |           |    |               |
| Mercury  | ND                           | 0.0002 |           | mg/L      | 1  | 5/22/2012     |
| <b>Mercury</b>                                 | <b>SW7471A</b>               |        |           |           |    |               |
| Mercury  | 0.077                        | 0.022  |           | mg/Kg-dry | 1  | 5/21/2012     |
| <b>Metals by ICP/MS</b>                        | <b>SW6020 (SW3050B)</b>      |        |           |           |    |               |
| Arsenic  | 14                           | 1.3    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Barium   | 250                          | 1.3    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Cadmium  | 1.3                          | 0.65   |           | mg/Kg-dry | 10 | 5/21/2012     |
| Chromium                                       | 23                           | 1.3    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Lead   | 510                          | 0.65   |           | mg/Kg-dry | 10 | 5/21/2012     |
| Selenium                                       | 1.4                          | 1.3    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Silver   | ND                           | 1.3    |           | mg/Kg-dry | 10 | 5/21/2012     |
| <b>TCLP Metals by ICP/MS</b>                   | <b>SW1311/6020 (SW3005A)</b> |        |           |           |    |               |
| Arsenic  | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Barium   | 0.73                         | 0.5    |           | mg/L      | 5  | 5/21/2012     |
| Cadmium  | ND                           | 0.005  |           | mg/L      | 5  | 5/21/2012     |
| Chromium                                       | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Lead   | 0.016                        | 0.005  |           | mg/L      | 5  | 5/21/2012     |
| Selenium                                       | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Silver   | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| <b>Semivolatile Organic Compounds by GC/MS</b> | <b>SW8270C (SW3550B)</b>     |        |           |           |    |               |
| Acenaphthene                                   | ND                           | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Acenaphthylene                                 | ND                           | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Anthracene                                     | ND                           | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benz(a)anthracene                              | 0.086                        | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(a)pyrene                                 | 0.091                        | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(b)fluoranthene                           | 0.097                        | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(g,h,i)perylene                           | 0.066                        | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(k)fluoranthene                           | ND                           | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |

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Date Reported: May 30, 2012

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|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-10 (1-2.5')       |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/15/2012 9:55:00 AM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                 |
| <b>Lab ID:</b>    | 12050486-003                                 |                          |                      |

| Analyses                                       | Result | RL     | Qualifier | Units     | DF | Date Analyzed |
|--|--------|--------|-----------|-----------|----|---------------|
| <b>Semivolatile Organic Compounds by GC/MS</b> |        |        |           |           |    |               |
| Chrysene                                       | 0.099  | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Dibenz(a,h)anthracene                          | ND     | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Fluoranthene                                   | 0.17   | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Fluorene                                       | ND     | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Indeno(1,2,3-cd)pyrene                         | 0.052  | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Naphthalene                                    | ND     | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Phenanthrene                                   | 0.096  | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Pyrene   | 0.14   | 0.041  |           | mg/Kg-dry | 1  | 5/18/2012     |
| <b>Volatile Organic Compounds by GC/MS</b>     |        |        |           |           |    |               |
| Acetone  | ND     | 0.098  |           | mg/Kg-dry | 1  | 5/21/2012     |
| Benzene  | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Bromodichloromethane                           | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Bromoform                                      | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Bromomethane                                   | ND     | 0.013  |           | mg/Kg-dry | 1  | 5/21/2012     |
| 2-Butanone                                     | ND     | 0.098  |           | mg/Kg-dry | 1  | 5/21/2012     |
| Carbon disulfide                               | ND     | 0.066  |           | mg/Kg-dry | 1  | 5/21/2012     |
| Carbon tetrachloride                           | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Chlorobenzene                                  | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Chloroethane                                   | ND     | 0.013  |           | mg/Kg-dry | 1  | 5/21/2012     |
| Chloroform                                     | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Chloromethane                                  | ND     | 0.013  |           | mg/Kg-dry | 1  | 5/21/2012     |
| Dibromochloromethane                           | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 1,1-Dichloroethane                             | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 1,2-Dichloroethane                             | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 1,1-Dichloroethene                             | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| cis-1,2-Dichloroethene                         | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| trans-1,2-Dichloroethene                       | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 1,2-Dichloropropane                            | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| cis-1,3-Dichloropropene                        | ND     | 0.0026 |           | mg/Kg-dry | 1  | 5/21/2012     |
| trans-1,3-Dichloropropene                      | ND     | 0.0026 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Ethylbenzene                                   | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 2-Hexanone                                     | ND     | 0.026  |           | mg/Kg-dry | 1  | 5/21/2012     |
| 4-Methyl-2-pentanone                           | ND     | 0.026  |           | mg/Kg-dry | 1  | 5/21/2012     |
| Methylene chloride                             | ND     | 0.013  |           | mg/Kg-dry | 1  | 5/21/2012     |
| Methyl tert-butyl ether                        | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Styrene  | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 1,1,2,2-Tetrachloroethane                      | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Tetrachloroethene                              | ND     | 0.0066 |           | mg/Kg-dry | 1  | 5/21/2012     |

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|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-10 (1-2.5')       |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/15/2012 9:55:00 AM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                 |
| <b>Lab ID:</b>    | 12050486-003                                 |                          |                      |

| Analyses                            | Result       | RL     | Qualifier | Units                | DF | Date Analyzed |
|-------------------------------------|--------------|--------|-----------|----------------------|----|---------------|
| Volatile Organic Compounds by GC/MS | SW5035/8260B |        |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Toluene                             | ND           | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,1-Trichloroethane               | ND           | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2-Trichloroethane               | ND           | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Trichloroethene                     | ND           | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Vinyl chloride                      | ND           | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Xylenes, Total                      | ND           | 0.02   |           | mg/Kg-dry            | 1  | 5/21/2012     |
| pH (25 °C)                          | SW9045C      |        |           | Prep Date: 5/17/2012 |    | Analyst: PBG  |
| pH                                  | 7.8          |        |           | pH Units             | 1  | 5/17/2012     |
| Percent Moisture                    | D2974        |        |           | Prep Date: 5/17/2012 |    | Analyst: RW   |
| Percent Moisture                    | 20.0         | 0.2    | *         | wt%                  | 1  | 5/18/2012     |
| Sulfate in Soil                     | M4500SO4,E   |        |           | Prep Date: 5/22/2012 |    | Analyst: YZ   |
| Sulfate                             | ND           | 620    | *         | mg/Kg-dry            | 10 | 5/22/2012     |

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit            | RL - Reporting / Quantitation Limit for the analysis |
|                    | J - Analyte detected below quantitation limits      | S - Spike Recovery outside accepted recovery limits  |
|                    | B - Analyte detected in the associated Method Blank | R - RPD outside accepted recovery limits             |
|                    | HT - Sample received past holding time              | E - Value above quantitation range                   |
|                    | * - Non-accredited parameter                        | H - Holding time exceeded                            |

# STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: May 30, 2012

Date Printed: May 30, 2012

| <b>Client:</b>                                 | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> SB-8 (8.5-10')      |           |                      |                      |               |
|--|--|--|-----------|----------------------|----------------------|---------------|
| <b>Lab Order:</b>                              | 12050486                                     | <b>Collection Date:</b> 5/15/2012 3:38:00 PM |           |                      |                      |               |
| <b>Project:</b>                                | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b> Soil                          |           |                      |                      |               |
| <b>Lab ID:</b>                                 | 12050486-004                                 |  |           |                      |                      |               |
| Analyses                                       | Result                                       | RL   | Qualifier | Units                | DF                   | Date Analyzed |
| <b>PCBs</b>                                    | <b>SW8082 (SW3550B)</b>                      |  |           |                      | Prep Date: 5/17/2012 | Analyst: GVC  |
| Aroclor 1016                                   | ND   | 0.096  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1221                                   | ND   | 0.096  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1232                                   | ND   | 0.096  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1242                                   | ND   | 0.096  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1248                                   | ND   | 0.096  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1254                                   | ND   | 0.096  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1260                                   | ND   | 0.096  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| <b>TCLP Mercury</b>                            | <b>SW1311/7470A</b>                          |  |           | Prep Date: 5/21/2012 | Analyst: LB          |               |
| Mercury  | ND   | 0.0002                                       |           | mg/L                 | 1                    | 5/22/2012     |
| <b>Mercury</b>                                 | <b>SW7471A</b>                               |  |           | Prep Date: 5/21/2012 | Analyst: LB          |               |
| Mercury  | 0.027  | 0.022  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| <b>Metals by ICP/MS</b>                        | <b>SW6020 (SW3050B)</b>                      |  |           | Prep Date: 5/21/2012 | Analyst: JG          |               |
| Arsenic  | 9.1  | 1.3  |           | mg/Kg-dry            | 10                   | 5/21/2012     |
| Barium   | 24   | 1.3  |           | mg/Kg-dry            | 10                   | 5/21/2012     |
| Cadmium  | ND   | 0.65   |           | mg/Kg-dry            | 10                   | 5/21/2012     |
| Chromium                                       | 12   | 1.3  |           | mg/Kg-dry            | 10                   | 5/21/2012     |
| Lead   | 14   | 0.65   |           | mg/Kg-dry            | 10                   | 5/21/2012     |
| Selenium                                       | ND   | 1.3  |           | mg/Kg-dry            | 10                   | 5/21/2012     |
| Silver   | ND   | 1.3  |           | mg/Kg-dry            | 10                   | 5/21/2012     |
| <b>TCLP Metals by ICP/MS</b>                   | <b>SW1311/6020 (SW3005A)</b>                 |  |           | Prep Date: 5/21/2012 | Analyst: JG          |               |
| Arsenic  | ND   | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Barium   | ND   | 0.5  |           | mg/L                 | 5                    | 5/21/2012     |
| Cadmium  | ND   | 0.005  |           | mg/L                 | 5                    | 5/21/2012     |
| Chromium                                       | ND   | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Lead   | 0.0064                                       | 0.005  |           | mg/L                 | 5                    | 5/21/2012     |
| Selenium                                       | ND   | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Silver   | ND   | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| <b>Semivolatile Organic Compounds by GC/MS</b> | <b>SW8270C (SW3550B)</b>                     |  |           | Prep Date: 5/17/2012 | Analyst: DM          |               |
| Acenaphthene                                   | ND   | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Acenaphthylene                                 | ND   | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Anthracene                                     | ND   | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Benz(a)anthracene                              | ND   | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Benzo(a)pyrene                                 | ND   | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Benzo(b)fluoranthene                           | ND   | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Benzo(g,h,i)perylene                           | ND   | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Benzo(k)fluoranthene                           | ND   | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: May 30, 2012

Date Printed: May 30, 2012

|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-8 (8.5-10')       |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/15/2012 3:38:00 PM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                 |
| <b>Lab ID:</b>    | 12050486-004                                 |                          |                      |

| Analyses                                       | Result | RL     | Qualifier | Units     | DF | Date Analyzed |
|--|--------|--------|-----------|-----------|----|---------------|
| <b>Semivolatile Organic Compounds by GC/MS</b> |        |        |           |           |    |               |
| Chrysene                                       | ND     | 0.04   |           | mg/Kg-dry | 1  | 5/18/2012     |
| Dibenz(a,h)anthracene                          | ND     | 0.04   |           | mg/Kg-dry | 1  | 5/18/2012     |
| Fluoranthene                                   | ND     | 0.04   |           | mg/Kg-dry | 1  | 5/18/2012     |
| Fluorene                                       | ND     | 0.04   |           | mg/Kg-dry | 1  | 5/18/2012     |
| Indeno(1,2,3-cd)pyrene                         | ND     | 0.04   |           | mg/Kg-dry | 1  | 5/18/2012     |
| Naphthalene                                    | ND     | 0.04   |           | mg/Kg-dry | 1  | 5/18/2012     |
| Phenanthrene                                   | ND     | 0.04   |           | mg/Kg-dry | 1  | 5/18/2012     |
| Pyrene   | ND     | 0.04   |           | mg/Kg-dry | 1  | 5/18/2012     |
| <b>Volatile Organic Compounds by GC/MS</b>     |        |        |           |           |    |               |
| Acetone  | ND     | 0.078  |           | mg/Kg-dry | 1  | 5/21/2012     |
| Benzene  | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Bromodichloromethane                           | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Bromoform                                      | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Bromomethane                                   | ND     | 0.01   |           | mg/Kg-dry | 1  | 5/21/2012     |
| 2-Butanone                                     | ND     | 0.078  |           | mg/Kg-dry | 1  | 5/21/2012     |
| Carbon disulfide                               | ND     | 0.052  |           | mg/Kg-dry | 1  | 5/21/2012     |
| Carbon tetrachloride                           | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Chlorobenzene                                  | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Chloroethane                                   | ND     | 0.01   |           | mg/Kg-dry | 1  | 5/21/2012     |
| Chloroform                                     | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Chloromethane                                  | ND     | 0.01   |           | mg/Kg-dry | 1  | 5/21/2012     |
| Dibromochloromethane                           | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 1,1-Dichloroethane                             | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 1,2-Dichloroethane                             | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 1,1-Dichloroethene                             | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| cis-1,2-Dichloroethene                         | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| trans-1,2-Dichloroethene                       | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 1,2-Dichloropropane                            | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| cis-1,3-Dichloropropene                        | ND     | 0.0021 |           | mg/Kg-dry | 1  | 5/21/2012     |
| trans-1,3-Dichloropropene                      | ND     | 0.0021 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Ethylbenzene                                   | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 2-Hexanone                                     | ND     | 0.021  |           | mg/Kg-dry | 1  | 5/21/2012     |
| 4-Methyl-2-pentanone                           | ND     | 0.021  |           | mg/Kg-dry | 1  | 5/21/2012     |
| Methylene chloride                             | ND     | 0.01   |           | mg/Kg-dry | 1  | 5/21/2012     |
| Methyl tert-butyl ether                        | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Styrene  | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| 1,1,2,2-Tetrachloroethane                      | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |
| Tetrachloroethene                              | ND     | 0.0052 |           | mg/Kg-dry | 1  | 5/21/2012     |

ND - Not Detected at the Reporting Limit

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**STAT** Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: May 30, 2012

Date Printed: May 30, 2012

**Client:** ARCADIS U.S., Inc. **Client Sample ID:** SB-8 (8.5-10')  
**Lab Order:** 12050486 **Collection Date:** 5/15/2012 3:38:00 PM  
**Project:** 127722.0000, ComEd-Crawford GS-13 Substation **Matrix:** Soil  
**Lab ID:** 12050486-004

| Analyses                            | Result       | RL     | Qualifier | Units                | DF | Date Analyzed |
|-------------------------------------|--------------|--------|-----------|----------------------|----|---------------|
| Volatile Organic Compounds by GC/MS | SW5035/8260B |        |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Toluene                             | ND           | 0.0052 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,1-Trichloroethane               | ND           | 0.0052 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2-Trichloroethane               | ND           | 0.0052 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Trichloroethene                     | ND           | 0.0052 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Vinyl chloride                      | ND           | 0.0052 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Xylenes, Total                      | ND           | 0.016  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| pH (25 °C)                          | SW9045C      |        |           | Prep Date: 5/17/2012 |    | Analyst: PBG  |
| pH                                  | 7.5          |        |           | pH Units             | 1  | 5/17/2012     |
| Percent Moisture                    | D2974        |        |           | Prep Date: 5/17/2012 |    | Analyst: RW   |
| Percent Moisture                    | 17.8         | 0.2    | *         | wt%                  | 1  | 5/18/2012     |
| Sulfate in Soil                     | M4500SO4,E   |        |           | Prep Date: 5/22/2012 |    | Analyst: YZ   |
| Sulfate                             | ND           | 610    | *         | mg/Kg-dry            | 10 | 5/22/2012     |

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit<br>J - Analyte detected below quantitation limits<br>B - Analyte detected in the associated Method Blank<br>HT - Sample received past holding time<br>* - Non-accredited parameter | RL - Reporting / Quantitation Limit for the analysis<br>S - Spike Recovery outside accepted recovery limits<br>R - RPD outside accepted recovery limits<br>E - Value above quantitation range<br>H - Holding time exceeded |
|--------------------|---|--|

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Date Reported: May 30, 2012

Date Printed: May 30, 2012

|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-9 (6-7.5')        |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/16/2012 9:15:00 AM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                 |
| <b>Lab ID:</b>    | 12050486-005                                 |                          |                      |

| Analyses                                       | Result                       | RL     | Qualifier | Units     | DF | Date Analyzed |
|--|------------------------------|--------|-----------|-----------|----|---------------|
| <b>PCBs</b>                                    | <b>SW8082 (SW3550B)</b>      |        |           |           |    |               |
| Aroclor 1016                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1221                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1232                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1242                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1248                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1254                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1260                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| <b>TCLP Mercury</b>                            | <b>SW1311/7470A</b>          |        |           |           |    |               |
| Mercury  | ND                           | 0.0002 |           | mg/L      | 1  | 5/22/2012     |
| <b>Mercury</b>                                 | <b>SW7471A</b>               |        |           |           |    |               |
| Mercury  | 0.029                        | 0.019  |           | mg/Kg-dry | 1  | 5/21/2012     |
| <b>Metals by ICP/MS</b>                        | <b>SW6020 (SW3050B)</b>      |        |           |           |    |               |
| Arsenic  | 6.6                          | 1.2    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Barium   | 60                           | 1.2    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Cadmium  | ND                           | 0.59   |           | mg/Kg-dry | 10 | 5/21/2012     |
| Chromium                                       | 18                           | 1.2    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Lead   | 25                           | 0.59   |           | mg/Kg-dry | 10 | 5/21/2012     |
| Selenium                                       | ND                           | 1.2    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Silver   | ND                           | 1.2    |           | mg/Kg-dry | 10 | 5/21/2012     |
| <b>TCLP Metals by ICP/MS</b>                   | <b>SW1311/6020 (SW3005A)</b> |        |           |           |    |               |
| Arsenic  | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Barium   | ND                           | 0.5    |           | mg/L      | 5  | 5/21/2012     |
| Cadmium  | ND                           | 0.005  |           | mg/L      | 5  | 5/21/2012     |
| Chromium                                       | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Lead   | 0.0054                       | 0.005  |           | mg/L      | 5  | 5/21/2012     |
| Selenium                                       | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Silver   | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| <b>Semivolatile Organic Compounds by GC/MS</b> | <b>SW8270C (SW3550B)</b>     |        |           |           |    |               |
| Acenaphthene                                   | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Acenaphthylene                                 | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Anthracene                                     | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benz(a)anthracene                              | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(a)pyrene                                 | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(b)fluoranthene                           | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(g,h,i)perylene                           | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(k)fluoranthene                           | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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Date Reported: May 30, 2012

Date Printed: May 30, 2012

| <b>Client:</b>                          | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> SB-9 (6-7.5')       |           |                      |    |               |
|---|--|--|-----------|----------------------|----|---------------|
| <b>Lab Order:</b>                       | 12050486                                     | <b>Collection Date:</b> 5/16/2012 9:15:00 AM |           |                      |    |               |
| <b>Project:</b>                         | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b> Soil                          |           |                      |    |               |
| <b>Lab ID:</b>                          | 12050486-005                                 |  |           |                      |    |               |
| Analyses                                | Result                                       | RL   | Qualifier | Units                | DF | Date Analyzed |
| Semivolatile Organic Compounds by GC/MS | SW8270C (SW3550B)                            |  |           | Prep Date: 5/17/2012 |    | Analyst: DM   |
| Chrysene                                | ND   | 0.039  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Dibenz(a,h)anthracene                   | ND   | 0.039  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Fluoranthene                            | ND   | 0.039  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Fluorene                                | ND   | 0.039  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Indeno(1,2,3-cd)pyrene                  | ND   | 0.039  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Naphthalene                             | ND   | 0.039  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Phenanthrene                            | ND   | 0.039  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Pyrene                                  | ND   | 0.039  |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Volatile Organic Compounds by GC/MS     | SW5035/8260B                                 |  |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Acetone                                 | ND   | 0.092  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Benzene                                 | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromodichloromethane                    | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromoform                               | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromomethane                            | ND   | 0.012  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 2-Butanone                              | ND   | 0.092  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Carbon disulfide                        | ND   | 0.061  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Carbon tetrachloride                    | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chlorobenzene                           | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloroethane                            | ND   | 0.012  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloroform                              | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloromethane                           | ND   | 0.012  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Dibromochloromethane                    | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1-Dichloroethane                      | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,2-Dichloroethane                      | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1-Dichloroethene                      | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| cis-1,2-Dichloroethene                  | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| trans-1,2-Dichloroethene                | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,2-Dichloropropane                     | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| cis-1,3-Dichloropropene                 | ND   | 0.0024                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| trans-1,3-Dichloropropene               | ND   | 0.0024                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Ethylbenzene                            | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 2-Hexanone                              | ND   | 0.024  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 4-Methyl-2-pentanone                    | ND   | 0.024  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Methylene chloride                      | ND   | 0.012  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Methyl tert-butyl ether                 | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Styrene                                 | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2,2-Tetrachloroethane               | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Tetrachloroethene                       | ND   | 0.0061                                       |           | mg/Kg-dry            | 1  | 5/21/2012     |

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** May 30, 2012**Date Printed:** May 30, 2012

**Client:** ARCADIS U.S., Inc. **Client Sample ID:** SB-9 (6-7.5')  
**Lab Order:** 12050486 **Collection Date:** 5/16/2012 9:15:00 AM  
**Project:** 127722.0000, ComEd-Crawford GS-13 Substation **Matrix:** Soil  
**Lab ID:** 12050486-005

| Analyses                            | Result       | RL     | Qualifier | Units                | DF | Date Analyzed |
|-------------------------------------|--------------|--------|-----------|----------------------|----|---------------|
| Volatile Organic Compounds by GC/MS | SW5035/8260B |        |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Toluene                             | ND           | 0.0061 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,1-Trichloroethane               | ND           | 0.0061 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2-Trichloroethane               | ND           | 0.0061 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Trichloroethene                     | ND           | 0.0061 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Vinyl chloride                      | ND           | 0.0061 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Xylenes, Total                      | ND           | 0.018  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| pH (25 °C)                          | SW9045C      |        |           | Prep Date: 5/17/2012 |    | Analyst: PBG  |
| pH                                  | 7.8          |        |           | pH Units             | 1  | 5/17/2012     |
| Percent Moisture                    | D2974        |        |           | Prep Date: 5/17/2012 |    | Analyst: RW   |
| Percent Moisture                    | 16.0         | 0.2    | *         | wt%                  | 1  | 5/18/2012     |
| Sulfate in Soil                     | M4500SO4,E   |        |           | Prep Date: 5/22/2012 |    | Analyst: YZ   |
| Sulfate                             | 3290         | 600    | *         | mg/Kg-dry            | 10 | 5/22/2012     |

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit            | RL - Reporting / Quantitation Limit for the analysis |
|                    | J - Analyte detected below quantitation limits      | S - Spike Recovery outside accepted recovery limits  |
|                    | B - Analyte detected in the associated Method Blank | R - RPD outside accepted recovery limits             |
|                    | HT - Sample received past holding time              | E - Value above quantitation range                   |
|                    | * - Non-accredited parameter                        | H - Holding time exceeded                            |

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Date Reported: May 30, 2012

Date Printed: May 30, 2012

|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-11 (1-2.5')       |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/17/2012 8:45:00 AM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                 |
| <b>Lab ID:</b>    | 12050486-006                                 |                          |                      |

| Analyses                                       | Result                       | RL     | Qualifier | Units     | DF | Date Analyzed |
|--|------------------------------|--------|-----------|-----------|----|---------------|
| <b>PCBs</b>                                    | <b>SW8082 (SW3550B)</b>      |        |           |           |    |               |
| Aroclor 1016                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1221                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1232                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1242                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1248                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1254                                   | ND                           | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Aroclor 1260                                   | 0.22                         | 0.094  |           | mg/Kg-dry | 1  | 5/18/2012     |
| <b>TCLP Mercury</b>                            | <b>SW1311/7470A</b>          |        |           |           |    |               |
| Mercury  | ND                           | 0.0002 |           | mg/L      | 1  | 5/22/2012     |
| <b>Mercury</b>                                 | <b>SW7471A</b>               |        |           |           |    |               |
| Mercury  | 0.03                         | 0.019  |           | mg/Kg-dry | 1  | 5/21/2012     |
| <b>Metals by ICP/MS</b>                        | <b>SW6020 (SW3050B)</b>      |        |           |           |    |               |
| Arsenic  | 12                           | 1.1    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Barium   | 63                           | 1.1    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Cadmium  | ND                           | 0.57   |           | mg/Kg-dry | 10 | 5/21/2012     |
| Chromium                                       | 18                           | 1.1    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Lead   | 25                           | 0.57   |           | mg/Kg-dry | 10 | 5/21/2012     |
| Selenium                                       | ND                           | 1.1    |           | mg/Kg-dry | 10 | 5/21/2012     |
| Silver   | ND                           | 1.1    |           | mg/Kg-dry | 10 | 5/21/2012     |
| <b>TCLP Metals by ICP/MS</b>                   | <b>SW1311/6020 (SW3005A)</b> |        |           |           |    |               |
| Arsenic  | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Barium   | ND                           | 0.5    |           | mg/L      | 5  | 5/21/2012     |
| Cadmium  | ND                           | 0.005  |           | mg/L      | 5  | 5/21/2012     |
| Chromium                                       | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Lead   | 0.0067                       | 0.005  |           | mg/L      | 5  | 5/21/2012     |
| Selenium                                       | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| Silver   | ND                           | 0.01   |           | mg/L      | 5  | 5/21/2012     |
| <b>Semivolatile Organic Compounds by GC/MS</b> | <b>SW8270C (SW3550B)</b>     |        |           |           |    |               |
| Acenaphthene                                   | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Acenaphthylene                                 | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Anthracene                                     | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benz(a)anthracene                              | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(a)pyrene                                 | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(b)fluoranthene                           | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(g,h,i)perylene                           | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |
| Benzo(k)fluoranthene                           | ND                           | 0.039  |           | mg/Kg-dry | 1  | 5/18/2012     |

ND - Not Detected at the Reporting Limit

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E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: May 30, 2012

Date Printed: May 30, 2012

|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-11 (1-2.5')       |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/17/2012 8:45:00 AM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                 |
| <b>Lab ID:</b>    | 12050486-006                                 |                          |                      |

| Analyses                                | Result            | RL     | Qualifier | Units      | DF        | Date Analyzed |
|---|-------------------|--------|-----------|------------|-----------|---------------|
| Semivolatile Organic Compounds by GC/MS | SW8270C (SW3550B) |        |           | Prep Date: | 5/17/2012 | Analyst: DM   |
| Chrysene                                | 0.048             | 0.039  |           | mg/Kg-dry  | 1         | 5/18/2012     |
| Dibenz(a,h)anthracene                   | ND                | 0.039  |           | mg/Kg-dry  | 1         | 5/18/2012     |
| Fluoranthene                            | 0.07              | 0.039  |           | mg/Kg-dry  | 1         | 5/18/2012     |
| Fluorene                                | ND                | 0.039  |           | mg/Kg-dry  | 1         | 5/18/2012     |
| Indeno(1,2,3-cd)pyrene                  | ND                | 0.039  |           | mg/Kg-dry  | 1         | 5/18/2012     |
| Naphthalene                             | ND                | 0.039  |           | mg/Kg-dry  | 1         | 5/18/2012     |
| Phenanthrene                            | 0.088             | 0.039  |           | mg/Kg-dry  | 1         | 5/18/2012     |
| Pyrene                                  | 0.064             | 0.039  |           | mg/Kg-dry  | 1         | 5/18/2012     |
| Volatile Organic Compounds by GC/MS     | SW5035/8260B      |        |           | Prep Date: | 5/17/2012 | Analyst: ERP  |
| Acetone                                 | ND                | 0.1    |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Benzene                                 | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Bromodichloromethane                    | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Bromoform                               | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Bromomethane                            | ND                | 0.014  |           | mg/Kg-dry  | 1         | 5/21/2012     |
| 2-Butanone                              | ND                | 0.1    |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Carbon disulfide                        | ND                | 0.069  |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Carbon tetrachloride                    | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Chlorobenzene                           | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Chloroethane                            | ND                | 0.014  |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Chloroform                              | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Chloromethane                           | ND                | 0.014  |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Dibromochloromethane                    | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| 1,1-Dichloroethane                      | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| 1,2-Dichloroethane                      | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| 1,1-Dichloroethene                      | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| cis-1,2-Dichloroethene                  | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| trans-1,2-Dichloroethene                | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| 1,2-Dichloropropane                     | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| cis-1,3-Dichloropropene                 | ND                | 0.0028 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| trans-1,3-Dichloropropene               | ND                | 0.0028 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Ethylbenzene                            | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| 2-Hexanone                              | ND                | 0.028  |           | mg/Kg-dry  | 1         | 5/21/2012     |
| 4-Methyl-2-pentanone                    | ND                | 0.028  |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Methylene chloride                      | ND                | 0.014  |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Methyl tert-butyl ether                 | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Styrene                                 | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| 1,1,2,2-Tetrachloroethane               | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |
| Tetrachloroethene                       | ND                | 0.0069 |           | mg/Kg-dry  | 1         | 5/21/2012     |

ND - Not Detected at the Reporting Limit

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Qualifiers: J - Analyte detected below quantitation limits

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**Date Reported:** May 30, 2012**Date Printed:** May 30, 2012

|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-11 (1-2.5')       |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/17/2012 8:45:00 AM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                 |
| <b>Lab ID:</b>    | 12050486-006                                 |                          |                      |

| Analyses                            | Result       | RL     | Qualifier | Units                | DF | Date Analyzed |
|-------------------------------------|--------------|--------|-----------|----------------------|----|---------------|
| Volatile Organic Compounds by GC/MS | SW5035/8260B |        |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Toluene                             | ND           | 0.0069 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,1-Trichloroethane               | ND           | 0.0069 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2-Trichloroethane               | ND           | 0.0069 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Trichloroethene                     | ND           | 0.0069 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Vinyl chloride                      | ND           | 0.0069 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Xylenes, Total                      | ND           | 0.021  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| pH (25 °C)                          | SW9045C      |        |           | Prep Date: 5/17/2012 |    | Analyst: PBG  |
| pH                                  | 7.1          |        |           | pH Units             | 1  | 5/17/2012     |
| Percent Moisture                    | D2974        |        |           | Prep Date: 5/17/2012 |    | Analyst: RW   |
| Percent Moisture                    | 15.7         | 0.2    | *         | wt%                  | 1  | 5/18/2012     |
| Sulfate in Soil                     | M4500SO4,E   |        |           | Prep Date: 5/22/2012 |    | Analyst: YZ   |
| Sulfate                             | 8570         | 1200   | *         | mg/Kg-dry            | 20 | 5/22/2012     |

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit            | RL - Reporting / Quantitation Limit for the analysis |
|                    | J - Analyte detected below quantitation limits      | S - Spike Recovery outside accepted recovery limits  |
|                    | B - Analyte detected in the associated Method Blank | R - RPD outside accepted recovery limits             |
|                    | HT - Sample received past holding time              | E - Value above quantitation range                   |
|                    | * - Non-accredited parameter                        | H - Holding time exceeded                            |

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Date Reported: May 30, 2012

Date Printed: May 30, 2012

|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-12 (3.5-5')       |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/17/2012 9:50:00 AM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                 |
| <b>Lab ID:</b>    | 12050486-007                                 |                          |                      |

| Analyses                                   | Result                        | RL     | Qualifier | Units                | DF                   | Date Analyzed |
|--|-------------------------------|--------|-----------|----------------------|----------------------|---------------|
| <b>PCBs</b>                                | <b>SW8082 (SW3550B)</b>       |        |           |                      | Prep Date: 5/17/2012 | Analyst: GVC  |
| Aroclor 1016                               | ND                            | 0.095  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1221                               | ND                            | 0.095  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1232                               | ND                            | 0.095  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1242                               | 0.82                          | 0.095  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1248                               | ND                            | 0.095  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1254                               | 0.58                          | 0.095  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1260                               | 0.11                          | 0.095  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| <b>TCLP Mercury</b>                        | <b>SW1311/7470A</b>           |        |           | Prep Date: 5/21/2012 | Analyst: LB          |               |
| Mercury                                    | ND                            | 0.0002 |           | mg/L                 | 1                    | 5/22/2012     |
| <b>Mercury Species Fractionation</b>       | <b>SW7470A/7471A (SW3200)</b> |        |           | Prep Date: 5/29/2012 | Analyst: LB          |               |
| Extractable Mercury                        | 0.36                          | 0.022  |           | mg/Kg-dry            | 3                    | 5/29/2012     |
| <b>Mercury Species Fractionation</b>       | <b>SW7470A/7471A (SW3200)</b> |        |           | Prep Date: 5/29/2012 | Analyst: LB          |               |
| Semi-mobile Mercury                        | 0.2                           | 0.0072 |           | mg/Kg-dry            | 1                    | 5/29/2012     |
| <b>Mercury Species Fractionation</b>       | <b>SW7470A/7471A (SW3200)</b> |        |           | Prep Date: 5/29/2012 | Analyst: LB          |               |
| Non-mobile Mercury                         | ND                            | 0.0072 |           | mg/Kg-dry            | 1                    | 5/29/2012     |
| <b>Mercury</b>                             | <b>SW7471A</b>                |        |           | Prep Date: 5/21/2012 | Analyst: LB          |               |
| Mercury                                    | 0.28                          | 0.022  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| <b>Metals by ICP/MS</b>                    | <b>SW6020 (SW3050B)</b>       |        |           | Prep Date: 5/22/2012 | Analyst: JG          |               |
| Arsenic                                    | 28                            | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Barium                                     | 340                           | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Cadmium                                    | 5.1                           | 0.6    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Chromium                                   | 40                            | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Lead                                       | 520                           | 0.6    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Selenium                                   | 3.4                           | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Silver                                     | ND                            | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| <b>TCLP Metals by ICP/MS</b>               | <b>SW1311/6020 (SW3005A)</b>  |        |           | Prep Date: 5/21/2012 | Analyst: JG          |               |
| Arsenic                                    | ND                            | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Barium                                     | ND                            | 0.5    |           | mg/L                 | 5                    | 5/21/2012     |
| Cadmium                                    | 0.021                         | 0.005  |           | mg/L                 | 5                    | 5/21/2012     |
| Chromium                                   | ND                            | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Lead                                       | 0.093                         | 0.005  |           | mg/L                 | 5                    | 5/21/2012     |
| Selenium                                   | ND                            | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Silver                                     | ND                            | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW5035/8260B</b>           |        |           | Prep Date: 5/17/2012 | Analyst: ERP         |               |

**Qualifiers:**  
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J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

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S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: May 30, 2012

Date Printed: May 30, 2012

**Client:** ARCADIS U.S., Inc.  
**Lab Order:** 12050486  
**Project:** 127722.0000, ComEd-Crawford GS-13 Substation  
**Lab ID:** 12050486-007

**Client Sample ID:** SB-12 (3.5-5')  
**Collection Date:** 5/17/2012 9:50:00 AM  
**Matrix:** Soil

| Analyses                            | Result       | RL    | Qualifier | Units                | DF | Date Analyzed |
|-------------------------------------|--------------|-------|-----------|----------------------|----|---------------|
| Volatile Organic Compounds by GC/MS | SW5035/8260B |       |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Acetone                             | ND           | 0.15  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Benzene                             | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromodichloromethane                | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromoform                           | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromomethane                        | ND           | 0.02  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 2-Butanone                          | ND           | 0.15  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Carbon disulfide                    | ND           | 0.1   |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Carbon tetrachloride                | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chlorobenzene                       | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloroethane                        | ND           | 0.02  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloroform                          | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloromethane                       | ND           | 0.02  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Dibromochloromethane                | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1-Dichloroethane                  | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,2-Dichloroethane                  | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1-Dichloroethene                  | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| cis-1,2-Dichloroethene              | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| trans-1,2-Dichloroethene            | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,2-Dichloropropane                 | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| cis-1,3-Dichloropropene             | ND           | 0.004 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| trans-1,3-Dichloropropene           | ND           | 0.004 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Ethylbenzene                        | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 2-Hexanone                          | ND           | 0.04  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 4-Methyl-2-pentanone                | ND           | 0.04  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Methylene chloride                  | ND           | 0.02  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Methyl tert-butyl ether             | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Styrene                             | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2,2-Tetrachloroethane           | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Tetrachloroethene                   | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Toluene                             | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,1-Trichloroethane               | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2-Trichloroethane               | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Trichloroethene                     | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Vinyl chloride                      | ND           | 0.01  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Xylenes, Total                      | ND           | 0.03  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| pH (25 °C)                          | SW9045C      |       |           | Prep Date: 5/17/2012 |    | Analyst: PBG  |
| pH                                  | 7.3          |       |           | pH Units             | 1  | 5/17/2012     |

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Date Reported: May 30, 2012

Date Printed: May 30, 2012

| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-12 (3.5-5')       |                      |
|-------------------|--|--------------------------|----------------------|----------------------|
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/17/2012 9:50:00 AM |                      |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation |                          | <b>Matrix:</b>       | Soil                 |
| <b>Lab ID:</b>    | 12050486-007                                 |                          |                      |                      |
| Analyses          | Result                                       | RL                       | Qualifier            | Units                |
| Percent Moisture  | D2974  |                          |                      | Prep Date: 5/17/2012 |
| Percent Moisture  | 16.3   | 0.2                      | *                    | wt% 1                |
| Sulfate in Soil   | M4500SO4,E                                   |                          |                      | Prep Date: 5/22/2012 |
| Sulfate           | 13500  | 3000                     | *                    | mg/Kg-dry 50         |

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit<br>J - Analyte detected below quantitation limits<br>B - Analyte detected in the associated Method Blank<br>HT - Sample received past holding time<br>* - Non-accredited parameter | RL - Reporting / Quantitation Limit for the analysis<br>S - Spike Recovery outside accepted recovery limits<br>R - RPD outside accepted recovery limits<br>E - Value above quantitation range<br>H - Holding time exceeded |
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Date Reported: May 30, 2012

Date Printed: May 30, 2012

|                   |  |                          |                       |
|-------------------|--|--------------------------|-----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-13 (3.5-5')        |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/17/2012 11:10:00 AM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                  |
| <b>Lab ID:</b>    | 12050486-008                                 |                          |                       |

| Analyses                                       | Result                       | RL     | Qualifier | Units                | DF                   | Date Analyzed |
|--|------------------------------|--------|-----------|----------------------|----------------------|---------------|
| <b>PCBs</b>                                    | <b>SW8082 (SW3550B)</b>      |        |           |                      | Prep Date: 5/17/2012 | Analyst: GVC  |
| Aroclor 1016                                   | ND                           | 0.095  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1221                                   | ND                           | 0.095  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1232                                   | ND                           | 0.095  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1242                                   | ND                           | 0.095  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1248                                   | ND                           | 0.095  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1254                                   | ND                           | 0.095  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Aroclor 1260                                   | ND                           | 0.095  |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| <b>TCLP Mercury</b>                            | <b>SW1311/7470A</b>          |        |           | Prep Date: 5/21/2012 | Analyst: LB          |               |
| Mercury  | ND                           | 0.0002 |           | mg/L                 | 1                    | 5/22/2012     |
| <b>Mercury</b>                                 | <b>SW7471A</b>               |        |           | Prep Date: 5/21/2012 | Analyst: LB          |               |
| Mercury  | ND                           | 0.023  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| <b>Metals by ICP/MS</b>                        | <b>SW6020 (SW3050B)</b>      |        |           | Prep Date: 5/22/2012 | Analyst: JG          |               |
| Arsenic  | 2.9                          | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Barium   | 110                          | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Cadmium  | ND                           | 0.6    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Chromium                                       | 24                           | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Lead   | 29                           | 0.6    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Selenium                                       | ND                           | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Silver   | ND                           | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| <b>TCLP Metals by ICP/MS</b>                   | <b>SW1311/6020 (SW3005A)</b> |        |           | Prep Date: 5/21/2012 | Analyst: JG          |               |
| Arsenic  | ND                           | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Barium   | ND                           | 0.5    |           | mg/L                 | 5                    | 5/21/2012     |
| Cadmium  | ND                           | 0.005  |           | mg/L                 | 5                    | 5/21/2012     |
| Chromium                                       | ND                           | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Lead   | ND                           | 0.005  |           | mg/L                 | 5                    | 5/21/2012     |
| Selenium                                       | ND                           | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Silver   | ND                           | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| <b>Semivolatile Organic Compounds by GC/MS</b> | <b>SW8270C (SW3550B)</b>     |        |           | Prep Date: 5/17/2012 | Analyst: DM          |               |
| Acenaphthene                                   | ND                           | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Acenaphthylene                                 | ND                           | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Anthracene                                     | ND                           | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Benz(a)anthracene                              | ND                           | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Benzo(a)pyrene                                 | ND                           | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Benzo(b)fluoranthene                           | ND                           | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Benzo(g,h,i)perylene                           | ND                           | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |
| Benzo(k)fluoranthene                           | ND                           | 0.04   |           | mg/Kg-dry            | 1                    | 5/18/2012     |

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Date Reported: May 30, 2012

Date Printed: May 30, 2012

**Client:** ARCADIS U.S., Inc.      **Client Sample ID:** SB-13 (3.5-5')  
**Lab Order:** 12050486      **Collection Date:** 5/17/2012 11:10:00 AM  
**Project:** 127722.0000, ComEd-Crawford GS-13 Substation      **Matrix:** Soil  
**Lab ID:** 12050486-008

| Analyses                                | Result            | RL     | Qualifier | Units                | DF | Date Analyzed |
|---|-------------------|--------|-----------|----------------------|----|---------------|
| Semivolatile Organic Compounds by GC/MS | SW8270C (SW3550B) |        |           | Prep Date: 5/17/2012 |    | Analyst: DM   |
| Chrysene                                | ND                | 0.04   |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Dibenz(a,h)anthracene                   | ND                | 0.04   |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Fluoranthene                            | ND                | 0.04   |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Fluorene                                | ND                | 0.04   |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Indeno(1,2,3-cd)pyrene                  | ND                | 0.04   |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Naphthalene                             | ND                | 0.04   |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Phenanthrene                            | ND                | 0.04   |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Pyrene                                  | ND                | 0.04   |           | mg/Kg-dry            | 1  | 5/18/2012     |
| Volatile Organic Compounds by GC/MS     | SW5035/8260B      |        |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Acetone                                 | ND                | 0.099  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Benzene                                 | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromodichloromethane                    | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromoform                               | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Bromomethane                            | ND                | 0.013  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 2-Butanone                              | ND                | 0.099  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Carbon disulfide                        | ND                | 0.066  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Carbon tetrachloride                    | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chlorobenzene                           | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloroethane                            | ND                | 0.013  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloroform                              | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloromethane                           | ND                | 0.013  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Dibromochloromethane                    | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1-Dichloroethane                      | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,2-Dichloroethane                      | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1-Dichloroethene                      | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| cis-1,2-Dichloroethene                  | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| trans-1,2-Dichloroethene                | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,2-Dichloropropane                     | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| cis-1,3-Dichloropropene                 | ND                | 0.0026 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| trans-1,3-Dichloropropene               | ND                | 0.0026 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Ethylbenzene                            | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 2-Hexanone                              | ND                | 0.026  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 4-Methyl-2-pentanone                    | ND                | 0.026  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Methylene chloride                      | ND                | 0.013  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Methyl tert-butyl ether                 | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Styrene                                 | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2,2-Tetrachloroethane               | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Tetrachloroethene                       | ND                | 0.0066 |           | mg/Kg-dry            | 1  | 5/21/2012     |

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Date Reported: May 30, 2012

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| <b>Client:</b>                      | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> SB-13 (3.5-5')       |           |                      |    |               |
|-------------------------------------|--|---|-----------|----------------------|----|---------------|
| <b>Lab Order:</b>                   | 12050486                                     | <b>Collection Date:</b> 5/17/2012 11:10:00 AM |           |                      |    |               |
| <b>Project:</b>                     | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b> Soil                           |           |                      |    |               |
| <b>Lab ID:</b>                      | 12050486-008                                 |   |           |                      |    |               |
| Analyses                            | Result                                       | RL  | Qualifier | Units                | DF | Date Analyzed |
| Volatile Organic Compounds by GC/MS | SW5035/8260B                                 |   |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Toluene                             | ND   | 0.0066  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,1-Trichloroethane               | ND   | 0.0066  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2-Trichloroethane               | ND   | 0.0066  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Trichloroethene                     | ND   | 0.0066  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Vinyl chloride                      | ND   | 0.0066  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Xylenes, Total                      | ND   | 0.02  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| pH (25 °C)                          | SW9045C                                      |   |           | Prep Date: 5/17/2012 |    | Analyst: PBG  |
| pH                                  | 7.9  |   |           | pH Units             | 1  | 5/17/2012     |
| Percent Moisture                    | D2974  |   |           | Prep Date: 5/17/2012 |    | Analyst: RW   |
| Percent Moisture                    | 17.0   | 0.2   | *         | wt%                  | 1  | 5/18/2012     |
| Sulfate in Soil                     | M4500SO4,E                                   |   |           | Prep Date: 5/22/2012 |    | Analyst: YZ   |
| Sulfate                             | ND   | 1200  | *         | mg/Kg-dry            | 20 | 5/22/2012     |

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: May 30, 2012

Date Printed: May 30, 2012

|                   |  |                          |                      |
|-------------------|--|--------------------------|----------------------|
| <b>Client:</b>    | ARCADIS U.S., Inc.                           | <b>Client Sample ID:</b> | SB-14 (3.5-5')       |
| <b>Lab Order:</b> | 12050486                                     | <b>Collection Date:</b>  | 5/17/2012 1:15:00 PM |
| <b>Project:</b>   | 127722.0000, ComEd-Crawford GS-13 Substation | <b>Matrix:</b>           | Soil                 |
| <b>Lab ID:</b>    | 12050486-009                                 |                          |                      |

| Analyses                                   | Result                       | RL     | Qualifier | Units                | DF                   | Date Analyzed |
|--|------------------------------|--------|-----------|----------------------|----------------------|---------------|
| <b>PCBs</b>                                | <b>SW8082 (SW3550B)</b>      |        |           |                      | Prep Date: 5/17/2012 | Analyst: GVC  |
| Aroclor 1016                               | ND                           | 0.093  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1221                               | ND                           | 0.093  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1232                               | ND                           | 0.093  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1242                               | 0.24                         | 0.093  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1248                               | ND                           | 0.093  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1254                               | 0.23                         | 0.093  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Aroclor 1260                               | 0.12                         | 0.093  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| <b>TCLP Mercury</b>                        | <b>SW1311/7470A</b>          |        |           | Prep Date: 5/21/2012 | Analyst: LB          |               |
| Mercury                                    | ND                           | 0.0002 |           | mg/L                 | 1                    | 5/22/2012     |
| <b>Mercury</b>                             | <b>SW7471A</b>               |        |           | Prep Date: 5/21/2012 | Analyst: LB          |               |
| Mercury                                    | ND                           | 0.018  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| <b>Metals by ICP/MS</b>                    | <b>SW6020 (SW3050B)</b>      |        |           | Prep Date: 5/22/2012 | Analyst: JG          |               |
| Arsenic                                    | 13                           | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Barium                                     | 140                          | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Cadmium                                    | 7.1                          | 0.58   |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Chromium                                   | 90                           | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Lead                                       | 240                          | 0.58   |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Selenium                                   | 1.5                          | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| Silver                                     | 2.2                          | 1.2    |           | mg/Kg-dry            | 10                   | 5/22/2012     |
| <b>TCLP Metals by ICP/MS</b>               | <b>SW1311/6020 (SW3005A)</b> |        |           | Prep Date: 5/21/2012 | Analyst: JG          |               |
| Arsenic                                    | 0.019                        | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Barium                                     | 1                            | 0.5    |           | mg/L                 | 5                    | 5/21/2012     |
| Cadmium                                    | 0.079                        | 0.005  |           | mg/L                 | 5                    | 5/21/2012     |
| Chromium                                   | ND                           | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Lead                                       | 0.32                         | 0.005  |           | mg/L                 | 5                    | 5/21/2012     |
| Selenium                                   | ND                           | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| Silver                                     | ND                           | 0.01   |           | mg/L                 | 5                    | 5/21/2012     |
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW5035/8260B</b>          |        |           | Prep Date: 5/17/2012 | Analyst: ERP         |               |
| Acetone                                    | 0.083                        | 0.079  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Benzene                                    | ND                           | 0.0053 |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Bromodichloromethane                       | ND                           | 0.0053 |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Bromoform                                  | ND                           | 0.0053 |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Bromomethane                               | ND                           | 0.011  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| 2-Butanone                                 | ND                           | 0.079  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Carbon disulfide                           | ND                           | 0.053  |           | mg/Kg-dry            | 1                    | 5/21/2012     |
| Carbon tetrachloride                       | ND                           | 0.0053 |           | mg/Kg-dry            | 1                    | 5/21/2012     |

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: May 30, 2012

Date Printed: May 30, 2012

**Client:** ARCADIS U.S., Inc.      **Client Sample ID:** SB-14 (3.5-5')

**Lab Order:** 12050486      **Collection Date:** 5/17/2012 1:15:00 PM

**Project:** 127722.0000, ComEd-Crawford GS-13 Substation      **Matrix:** Soil

**Lab ID:** 12050486-009

| Analyses                            | Result       | RL     | Qualifier | Units                | DF | Date Analyzed |
|-------------------------------------|--------------|--------|-----------|----------------------|----|---------------|
| Volatile Organic Compounds by GC/MS | SW5035/8260B |        |           | Prep Date: 5/17/2012 |    | Analyst: ERP  |
| Chlorobenzene                       | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloroethane                        | ND           | 0.011  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloroform                          | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Chloromethane                       | ND           | 0.011  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Dibromochloromethane                | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1-Dichloroethane                  | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,2-Dichloroethane                  | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1-Dichloroethene                  | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| cis-1,2-Dichloroethene              | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| trans-1,2-Dichloroethene            | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,2-Dichloropropane                 | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| cis-1,3-Dichloropropene             | ND           | 0.0021 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| trans-1,3-Dichloropropene           | ND           | 0.0021 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Ethylbenzene                        | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 2-Hexanone                          | ND           | 0.021  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 4-Methyl-2-pentanone                | ND           | 0.021  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Methylene chloride                  | ND           | 0.011  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Methyl tert-butyl ether             | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Styrene                             | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2,2-Tetrachloroethane           | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Tetrachloroethene                   | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Toluene                             | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,1-Trichloroethane               | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| 1,1,2-Trichloroethane               | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Trichloroethene                     | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Vinyl chloride                      | ND           | 0.0053 |           | mg/Kg-dry            | 1  | 5/21/2012     |
| Xylenes, Total                      | ND           | 0.016  |           | mg/Kg-dry            | 1  | 5/21/2012     |
| pH (25 °C)                          | SW9045C      |        |           | Prep Date: 5/17/2012 |    | Analyst: PBG  |
| pH                                  | 8.3          |        |           | pH Units             | 1  | 5/17/2012     |
| Percent Moisture                    | D2974        |        |           | Prep Date: 5/17/2012 |    | Analyst: RW   |
| Percent Moisture                    | 14.8         | 0.2    | *         | wt%                  | 1  | 5/18/2012     |
| Sulfate in Soil                     | M4500SO4,E   |        |           | Prep Date: 5/22/2012 |    | Analyst: YZ   |
| Sulfate                             | ND           | 590    | *         | mg/Kg-dry            | 10 | 5/22/2012     |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
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RL - Reporting / Quantitation Limit for the analysis  
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**STAT Analysis Corporation****Sample Receipt Checklist**

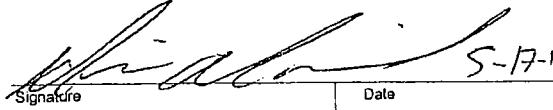
Client Name LFR

Date and Time Received: 5/17/2012 2:45:00 PM

Work Order Number 12050486

Received by: MAM

Checklist completed by:

Reviewed by:  
Initials CG Date 5/18/12

Matrix:

Carrier name Client Delivered

|   |   |  |   |
|---|---|--|---|
| Shipping container/coolier in good condition?           | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>            | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/coolier?     | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>            | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>            | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>            |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>            |   |
| Chain of custody agrees with sample labels/containers?  | Yes <input type="checkbox"/>                    | No <input checked="" type="checkbox"/> |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>            |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>            |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>            |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>            |   |
| Container or Temp Blank temperature in compliance?      | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>            | Temperature 3.3 °C                              |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input type="checkbox"/> | Yes <input type="checkbox"/>           | No <input type="checkbox"/>                     |
| Water - Samples pH checked?                             | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>            | Checked by: _____                               |
| Water - Samples properly preserved?                     | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>            | pH Adjusted? _____                              |

Any No response must be detailed in the comments section below.

Comments: Sample "SB-8 (8.5-10')". 5035 kit not received but written on COC. Sample "SB-10(8.5-10') 5035 kit received but not listed on COC.

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: Run SB-12(3.5-5) and SB-14(3.5-5) full Scan SVOC on separate report per Scott Verbal 5/18/12 CG